

## BRICK, CONCRETE & MASONRY SURFACES CARE INSTRUCTIONS

Brick, concrete and masonry surfaces look beautiful and are very durable when protected and maintained properly. Brick and masonry surfaces are typically very porous and therefore susceptible to the absorption of water, salts, oils, grease, dirt, grime that can be very difficult to protect and maintain. In addition exposure to freeze/thaw cycles inflict additional stress to these surfaces. In the past these challenges have been met with difficulty, exhaustion and great expense.

Miracle Sealant Company offers the most advanced system for the protection maintenance and restoration of natural stone, tile, grout, brick and masonry surfaces. Miracle Sealants products and procedures, combined with three generations of industry knowledge, will aid you in maintaining the timeless beauty of brick and masonry surfaces.

### NEW INSTALLATIONS

#### SAMPLE TESTING

Due to the differences of each surface, several inconspicuous test patches should be completed with each product to assure maximum performance. **Users must determine the suitability of the product for their intended use.**

Exterior Building facades, walls, driveways, bridges and abutments surfaces exposed to salt-ion intrusion; freeze/thaw cycles use **Miracle Sealants' 511 CST** (Concrete Surface Treatment)

- For medium to dense surfaces, **511 Impregnator** should be sufficient. For the best bacteria resistance, use **511 Impregnator**.
- For the best possible oil & water repellency, **511 Porous Plus** should be used.
- In any situation where no odor can be present, use **511 H2O Plus**.
- For best possible oil & water repellency while offering a darkening/color enhancement, **511 Seal & Enhance** should be used.

#### SEALING AS A GROUT / MORTAR RELEASE

These surfaces are porous and can absorb stains from many items including the dye in many grouts/mortars. To insure the best possible installation, **511 Sealant** should be applied as a grout/mortar release before the grouting process. These sealers resist grout/mortar dye absorption, facilitate grout/mortar residue removal (up to 45% faster), resist salt ion intrusion, resist damage due to freeze/thaw cycles and offer superior stain resistance during and after construction.

#### DIRECTIONS

Always test a small area to insure desired results. Do not dilute or thin at any time. Shake well.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. **511** may be applied to damp surfaces 1-2 hours after standing water has been removed.
3. Apply an even application of **511** using a clean white towel or pump sprayer.
4. Saturate the surface getting the surface "Wet to the Eye" being careful not to allow 511 into the open ungrouted/mortared joints.
5. Allow **511** to dwell for 3-5 minutes.
6. Wipe or buff off any excess **511** before it dries on the surface.
7. Apply a second application after the first has dried at least 2 - 8 hours.
8. Reactivating the residue with **511** and immediately buffing dry may remove any excess 511 that has dried on the surface creating a residue/film.
9. If the residue has been on the surface for more than a few hours, use **Miracle Sealants' Residue Remover**. Apply directly to the surface and immediately buff or wipe dry.
10. For 511 H2O Plus, use warm water and a soft scrub pad to remove excess.
11. Allow 511 to cure 12-72 hours before proceeding with the grouting/mortaring process.
12. Grout/mortar the surface per manufacturer's specifications.
13. Clean all grout/mortar residue completely with a clean sponge and water.
14. Refer to the Product Data Sheet, MSDS & Label for complete directions.

With some difficult surfaces it may be necessary to use **Miracle Sealants' GCFR, Phosphoric Acid Cleaner** or **Sulfamic Acid Crystals** as directed later in this guide to completely remove all grout residue.

#### GROUT/MORTAR SEALING

Although grout can be treated with **511** within an hour of grout residue removal, it is suggested to allow grout to cure per manu-

facturer's specification so as not to void any manufacturer warranty on the grout. For existing grout it is not necessary to wait.

1. Apply **511** with a paintbrush to grout joints or a pump sprayer for vertical or large areas for salt ion, water, oil and stain resistance.
2. Allow **511** to dwell 3-5 minutes.
3. Wipe or buff off any excess before it dries on the surface.
4. Any excess that has dried on the surface creating a residue/film, may be removed by reactivating the residue with **5111** and immediately buffing dry.
5. For 511 H2O Plus, use warm water and a soft scrub pad to remove excess.
6. Finished area can be used for normal foot traffic in 3-5 hours.
7. Allow **511** to cure 72 hours before subjecting to water, oil and staining materials.
8. Refer to the Product Data Sheet, MSDS & Label for complete directions.

#### **SEALING AND THE NATURAL LOOK**

If you are trying to retain the natural look of the stone, we recommend stopping at this point and putting the area into service. This type of finish will require the least amount of maintenance and is recommend for high traffic and food areas for maximum stain and slip protection.

#### **SEALING AND GRAFFITI PROTECTION**

For areas susceptible to graffiti use the appropriate **511 CST** to help repel graffiti. As with anything, conduct a test to determine results.

#### **SEALING AND COLOR ENHANCEMENT**

Always test a small area to insure desired results. Do not dilute or thin at any time. Shake well.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

For color enhancement we recommend **Miracle Sealants' 511 Seal & Enhance** natural stone impregnator and color enhancer. **511 Seal & Enhance** was designed to enhance the natural color and texture of all brick, concrete & masonry and cast stone surfaces. In addition to beautifying the stone, **511 Seal & Enhance** offers stain resistance to water, oil and stains all in one product.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Apply using a clean white towel or pump sprayer.
3. Apply enough to the surface so it is "Wet to the Eye"
4. Do not allow **511 Seal & Enhance** to puddle or air dry on the surface.
5. Work in small areas.
6. At least two applications are necessary to achieve desired enhancement, water, oil and stain resistance.
7. Apply second application after the initial application has dried at least one hour.
8. Remove excess before it dries.
9. Excess may be removed by reactivating residue with **511 Seal & Enhance** and immediately buffing dry.
10. Finished area can be used for normal foot traffic in 3-5 hours.
11. Keep free from water, oil and stains for 72 hours.
12. Refer to the Product Data Sheet, MSDS & Label for complete directions.

**Special Note: 511 Seal & Enhance cannot be stripped or removed from the surface once the surface has been color enhanced. Make sure to test and assure the look is what is desired.**

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## **RESTORATION**

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#### **GRAFFITI REMOVAL**

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

Graffiti can be removed with **Miracle Sealants Mira Strip**, or a water rinseable paint remover and a light pressure washing (less than 800 PSI) or other type of graffiti removal product.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Apply **Mira Strip** undiluted onto the surface with the graffiti.
3. Apply liberally and allow to dwell 10-20 minutes.
4. Agitate periodically with a stiff brush.
5. Do not allow **Mira Strip** to puddle or air dry on the surface.

6. Work in small areas.
7. Rinse surfaces with a mild pressure washer (less than 800 psi).
8. Hot water or steam is much better.
9. Multiple applications may be necessary.
10. Finished area can be used for normal foot traffic in 3-5 hours.
11. Keep free from water, oil and stains for 72 hours.
12. Refer to the Product Data Sheet, MSDS & Label for complete directions.

**Special Note:** **Aggressive cleaning can remove microscopic layers of the surface and with it the protection of 511. Miracle Sealants recommends reapplication of 511 in areas that have been cleaned using a pressure washer.**

#### **FLOOR COATING/WAX REMOVAL**

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

To remove existing water base coatings, waxes and epoxy grout film use **Miracle Sealants' H2O Strip** fast acting stripper. To remove existing solvent base coatings, waxes and mastics, use **Miracle Sealants' Mira Strip** fast acting stripper.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Apply stripper to the surface undiluted.
3. Allow solution to dwell for 5-20 minutes, agitating periodically with a medium aggressive hand brush for small areas and floor brush and the **Miracle Sealants' Marble Master MM 1000** (150 lbs/170 rpm) floor machine for large areas.
4. Remove all dirty remains with towels or a wet vacuum.
5. Thoroughly rinse surface with clean water.
6. Allow the surface to dry.
7. Multiple applications may be required.
8. **H2O Strip** is alkaline and may affect the surface finish of some stone.
9. Finished area can be used for normal foot traffic in 1-5 hours.
10. Refer to the Product Data Sheet, MSDS & Label for complete directions.

#### **HEAVY DUTY CLEANING**

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

To remove hard water deposits, grout residue, efflorescence, rust and other heavy dirt and grime use **Phosphoric Acid Cleaner, GCFR** or **Sulfamic Acid Crystals**.

For hard water deposits and efflorescence that may begin to develop over time use **Miracle Sealants Phosphoric Acid Cleaner**. Easy to use and very effective at removing the minerals as well as excess grout and mortar.

Miracle Sealants' **Phosphoric Acid Cleaner**.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **Phosphoric Acid Cleaner** with ten parts water (10:1). Do not use stronger than (3:1).
3. Wet surface to be cleaned with clean water.
4. Apply solution using a brush, towel or mop.
5. Allow solution to dwell 1-5 minutes while keeping the surface damp.
6. Agitate the surface with a brush.
7. Do not allow solution to dry on the surface.
8. Remove excess with towels or wet vacuum.
9. Rinse with clean water and a mixture of **Mira Clean #1** (10:1) to insure complete neutralization.
10. Finished area can be used for normal foot traffic in 1-5 hours.
11. Refer to the Product Data Sheet, MSDS & Label for complete directions.

For the most aggressive cleaning challenges use **Miracle Sealants' Grout & Concrete Film Remover (GCFR)** a strong hydrochloric acid cleaner.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.

2. Mix one part **GCFR** with ten parts water (10:1). Do not use stronger than (3:1).
3. Wet surface to be cleaned with clean water.
4. Apply **GCFR** solution using a brush, towel or mop.
5. Allow solution to dwell 1-5 minutes while keeping the surface damp.
6. Agitate the surface with a brush.
7. Do not allow solution to dry on the surface.
8. Remove excess with towels or wet vacuum.
9. Rinse with clean water and a mixture of **Mira Clean #1** (10:1) to insure complete neutralization.
10. Finished area can be used for normal foot traffic in 1-5 hours.
11. Refer to the Product Data Sheet, MSDS & Label for complete directions.

**Special note: Concentrate vapor from GCFR can etch metals and damage other surfaces. Be sure to take necessary precautions.**

For extremely mild cleaning try **Miracle Sealants Sulfamic Acid Crystals**.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix 3/4 cup **Sulfamic Acid Crystals** to 1 gallon of water.
3. Mix until crystals are dissolved. (In cold weather not all crystals will dissolve.)
4. Wet surface to be cleaned with clean water.
5. Apply **Sulfamic** solution using a brush, towel or mop.
6. Allow solution to dwell 1-5 minutes while keeping the surface damp.
7. Agitate the surface with a brush.
8. Do not allow solution to dry on the surface.
9. Remove excess with towels or wet vacuum.
10. Rinse with clean water and a mixture of **Mira Clean #1** (10:1) to insure complete neutralization.
11. Finished area can be used for normal foot traffic in 1-5 hours.
12. Refer to the Product Data Sheet, MSDS & Label for complete directions.

#### **STAIN REMOVAL**

For stain removal troubleshooting use **Poultice Plus** and refer to **Miracle Sealants Stain Removal Guide** for further information.

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix **Poultice Plus** using distilled water (if you are not sure what the stain is) into a peanut butter like paste.
3. Apply **Poultice Plus** paste to stain about 1/2" thick and overlap 1/2".
4. Cover the **Poultice Plus** paste with plastic wrap.
5. Tape the plastic wrap to the surface using non-marking tape to create an "air tight" seal.
6. Allow to dry 24-48 hours or until completely dry to hard clay like paste.
7. Remove plastic wrap from stain.
8. Knock the residual powder/paste away using a wood spoon or spatula.
9. Rinse the area using distilled water.
10. Multiple applications may be necessary to remove stain entirely.
11. Finished area can be used for normal foot traffic in 1-5 hours.
12. Refer to the Product Data Sheet, MSDS & Label for complete directions.

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## **MAINTENANCE**

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#### **LIGHT CLEANING FOR THE NATURAL LOOK**

For a general cleaning use **Miracle Sealants' Mira Clean #1**.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.

2. Mix one part **Mira Clean #1** to ten parts warm water. For more difficult cleaning issues, a mixture of one part **Mira Clean #1** to three parts warm water.
3. Apply **Mira Clean #1** solution using a mop or sponge.
4. Allow solution to dwell 10-20 minutes.
5. Agitate periodically with a medium brush.
6. Extract all dirty remains with towels or a wet vacuum.
7. Rinse the surface with clean water to eliminate any streaks or residue.
8. Change the water when it becomes dirty or cloudy.
9. Finished area can be used for normal foot traffic in 1-5 hours.
10. Refer to the Product Data Sheet, MSDS & Label for complete directions.

#### **LIGHT CLEANING FOR COLOR ENHANCEMENT**

Daily cleaning of stone impregnated with **511 Seal & Enhance** can consist of using **Mira Clean #1** as directed previously in this guide.

#### **MOLD, MILDEW BACTERIA SANITATION**

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

For best results in killing mold, mildew, bacteria and other microorganisms use **Miracle Sealants' Miracle Wipes**. **Miracle Wipes** is an EPA Registered product that eliminate 99.9% of common household bacteria, mold, mildew and other microorganisms. **Miracle Wipes** are especially good for food preparation surfaces, kitchen counters, and shower and bath areas.

1. Refer to the Product Data Sheet, MSDS & Label for complete directions.
2. Follow directions for use explicitly.

#### **COUNTER CLEANING**

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

For smooth finish counters, using **Miracle Sealants' Counter Kleen** or **Counter Kleen Wipes**, as often as you want, will keep it clean without streaking. **Counter Kleen** is a non-toxic cleaner that is easily sprayed onto the surface and wipe off.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Ready to use. Spray directly onto counter.
3. Agitate using a soft sponge, brush or cloth.
4. Wipe dry using a clean dry towel.
5. No rinsing necessary.
6. Finished area can be used immediately.
7. Refer to the Product Data Sheet, MSDS & Label for complete directions.

#### **SEALING MAINTENANCE**

Resealing will vary depending on porosity, density, hardness, foot traffic and the elements (indoor or outdoor) the area is exposed to. As a general rule, medium to dense surfaces exposed to heavy foot traffic can be resealed every 1-3 years. Very hard surfaces exposed to heavy foot traffic can be resealed every 3-5 years. It is important to remember that any additional or future applications of **511 Sealants** will require less sealant than originally used.

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## QUARRY TILE CARE INSTRUCTIONS

This type of tile looks beautiful and is very durable when protected and maintained properly. Although this type of surface varies in porosity and abrasive finish, the surfaces can be very difficult to protect and maintain. In the past these challenges have been met with difficulty, exhaustion and great expense. **Miracle Sealants Company** offers the most advanced system for the protection, maintenance and restoration of these surface materials. **Miracle Sealants'** products and procedures, combined with three generations of industry knowledge, will aid you in maintaining the timeless beauty of quarry tile surfaces.

For the best bacteria resistance use **511 Impregnator**.

For the best oil and stain repellency use **511 Porous Plus**.

In any situation where no odor can be present, use **511 H2O Plus** for tile and grout protection.

### NEW INSTALLATIONS

Follow the recommended installation methods and procedures of the Marble Institute of America, Building Stone Institute and Tile Council of America. Allow new installations of setting materials and grout to cure per manufacturer's specification prior to using **511 Sealants**.

#### SAMPLE TESTING

Due to the differences of each surface, several inconspicuous test patches should be completed with each product to assure maximum performance. **USERS MUST DETERMINE THE SUITABILITY OF THE PRODUCT FOR THEIR INTENDED USE!**

#### SEALING AS A GROUT RELEASE

Although these types of surfaces vary in their porosity, they all can absorb stains from items including the dye in many grouts. To insure the best possible installation, **511 Impregnator** should be applied as a grout release before the grouting process. **511 Impregnator** will resist dye absorption, facilitate grout residue removal (up to 45% faster), and offer superior stain resistance during the installation process.

#### DIRECTIONS

Always test a small area to insure desired results. Do not dilute or thin at any time. Shake well.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. **511** may be applied to damp surfaces 1-2 hours after standing water has been removed.
3. Apply an even application of **511** using a clean white towel.
4. Saturate the surface getting the surface "Wet to the Eye" being careful not to allow **511** into the open ungrouted joints.
5. Allow **511** to dwell for 3-5 minutes.
6. Wipe or buff off any excess **511** before it dries on the surface with terry cloth towels.
7. Reactivating the residue with **511 Impregnator** and immediately buffing dry may remove any excess **511** that has dried on the surface creating a residue/film.
8. If the residue has been on the surface for more than a few hours, use **Miracle Sealants' Residue Remover**. Apply directly to the surface and immediately buff or wipe dry with terry cloth towels.
9. For **511 H2O Plus**, use warm water and a soft scrub pad to remove excess.
10. Allow **511** to cure 12-72 hours before proceeding with the grouting process.
11. Grout the surface per manufacturer's specifications.
12. Clean all grout residue completely with a clean sponge and water.

With some difficult surfaces it may be necessary to use **Miracle Sealants' GCFR, Phosphoric Acid Cleaner, Sulfamic Acid Crystals, Epoxy Grout Film Remover** or **H2O Strip** to completely remove all grout residue.

#### GROUT SEALING

Although grout can be treated with **511 Impregnator / 511 Porous Plus / 511 H2O Plus** within an hour of grout residue removal, it is suggested to allow grout to cure per manufacturer's specification so as not to void any manufacturer warranty on the grout. For existing grout it is not necessary to wait.

1. Apply **511 Impregnator / 511 Porous Plus** with a paintbrush to grout joints for water, oil and stain resistance.
2. Allow **511** to dwell 3-5 minutes.
3. Wipe or buff off any excess before it dries on the surface with terry cloth towels.
4. Any excess that has dried on the surface creating a residue/film, may be removed by reactivating the residue with **511** and immediately buffing dry with terry cloth towels.

5. For **511 H2O Plus**, use warm water and a soft scrub pad to remove excess.
6. Finished area can be used for normal foot traffic in 3-5 hours.
7. Allow **511** to cure 72 hours before subjecting to water, oil and staining materials.
8. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete directions.

#### **SEALING AND THE NATURAL LOOK**

If you are trying to retain the natural look of the tile, we recommend stopping at this point and putting the area into service. This type of finish will require the least amount of maintenance and is recommend for high traffic and food areas for maximum stain and slip protection.

#### **SEALING AND COLOR ENHANCEMENT**

Always test a small area to insure desired results. Do not dilute or thin at any time. Shake well.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

For color enhancement we recommend **Miracle Sealants' 511 Seal & Enhance** natural stone impregnator and color enhancer. **511 Seal & Enhance** was designed to enhance the natural color of quarry tile surfaces. In addition to beautifying the quarry tile, **511 Seal & Enhance** offers stain resistance to water, oil and stains of **511 Porous Plus** all in one product.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Apply using a clean white towel.
3. Apply enough to the surface so it is "Wet to the Eye"
4. Do not allow **511 Seal & Enhance** to puddle or air dry on the surface.
5. Work in small areas.
6. At least two applications are necessary to achieve desired enhancement, water, oil and stain resistance.
7. Apply second application after the initial application has dried at least one hour.
8. Remove excess before it dries with terry cloth towels.
9. Excess may be removed by reactivating residue with **511 Seal & Enhance** and immediately buffing dry with terry cloth towels.
10. Finished area can be used for normal foot traffic in 3-5 hours.
11. Keep free from water, oil and stains for 72 hours.
12. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete directions.

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## **RESTORATION**

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#### **FLOOR COATING/WAX REMOVAL**

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

To remove existing water base coatings, epoxy grouts and waxes use **Miracle Sealants' H2O Strip** fast acting stripper. To remove existing solvent base coatings, waxes and mastics use **Miracle Sealants' Mira Strip** fast acting stripper.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Apply stripper to the surface undiluted.
3. Allow solution to dwell for 5-20 minutes, agitating periodically with a medium aggressive hand brush for small areas and floor brush and the **Miracle Sealants' Marble Master MM 1000** (150 lbs/175 rpm) floor machine for large areas.
4. Remove all dirty remains with towels or a wet vacuum.
5. Thoroughly rinse surface with clean water.
6. Allow the surface to dry.
8. Multiple applications may be required.
9. **H2O Strip** is alkaline and may affect the surface finish of some tile.
10. Finished area can be used for normal foot traffic in 1-5 hours.
11. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

**HEAVY DUTY CLEANING**

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

To remove hard water deposits, grout residue, efflorescence, rust and other heavy dirt and grime use **Phosphoric Acid Cleaner**, **GCFR** or **Porcelain & Ceramic Tile Cleaner**.

For hard water deposits and soap scum that may begin to develop in shower and bath surfaces use **Miracle Sealants' Porcelain & Ceramic Tile Cleaner**. Easy to use, and very effective. **Porcelain & Ceramic Tile Cleaner** contains mild abrasives in a mild ammoniated cleaner.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Simply flip the top of **Porcelain & Ceramic Tile Cleaner** and squeeze some onto a soft, white scrub pad.
3. Scrub in circular motions.
4. Rinse with water and damp wipe the dirt away.
5. For large area, **Porcelain & Ceramic Tile Cleaner** can be applied directly to the quarry tile surface and buffed using a **Marble Master MM 1000** floor machine and stiff brush.
6. Finished area can be used for normal foot traffic in 1-5 hours.
7. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

For the most aggressive cleaning challenges use **Miracle Sealants' Grout & Concrete Film Remover (GCFR)** a strong hydrochloric acid cleaner.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **GCFR** with ten parts water (10:1). Do not use stronger than (3:1).
3. Wet surface to be cleaned with clean water.
4. Apply **GCFR** solution using a brush, towel or mop.
5. Allow solution to dwell 1-5 minutes while keeping the surface damp.
6. Agitate the surface with a brush.
7. Do not allow solution to dry on the surface.
8. Remove excess with towels or wet vacuum.
9. Rinse with clean water and a mixture of **Mira Clean #1** (10:1) to insure complete neutralization.
10. Finished area can be used for normal foot traffic in 1-5 hours.
11. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

For the little less aggressive cleaning challenge use **Miracle Sealants' Phosphoric Acid Cleaner**.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **Phosphoric Acid Cleaner** with ten parts water (10:1). Do not use stronger than (3:1).
3. Wet surface to be cleaned with clean water.
4. Apply solution using a brush, towel or mop.
5. Allow solution to dwell 1-5 minutes while keeping the surface damp.
6. Agitate the surface with a brush.
7. Do not allow solution to dry on the surface.
8. Remove excess with towels or wet vacuum.
9. Rinse with clean water and a mixture of **Mira Clean #1** (10:1) to insure complete neutralization.
10. Finished area can be used for normal foot traffic in 1-5 hours.
11. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

**Acid Sensitive Surfaces** should be cleaned with **Miracle Sealants' Liquid Poulitice**, a non-acidic deep cleaner designed specifically for acid sensitive surfaces. Use of **Liquid Poulitice** will not affect the natural finish of the tile.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **Liquid Poulitice Part A** with one part **Liquid Poulitice Part B** with 2 equal parts warm water.
3. Wet the surface to be cleaned.



4. Apply **Liquid Poultice** solution using a soft brush, towel or mop.
5. Allow solution to dwell 40 minutes while keeping the surface damp.
6. Agitate the surface with a soft brush periodically. Do not allow cleaner to dry on the surface!
7. Remove excess with towels or wet vacuum.
8. Rinse with clean water.
9. On walls a fine mist may be applied and allowed to dry up to 72 hours.
10. Finished area can be used for normal foot traffic within 1-5 hours.
11. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

#### **HEAVY OIL/GREASE REMOVAL FROM FLOORS**

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Apply **Mira Clean #1** diluted with 3 parts hot water to 1 part **Mira Clean #1**.
3. Apply liberally using a sponge mop or rayon mop.
4. Allow to sit 20-40 minutes keeping wet while agitating with a stiff brush.
5. Remove with wet vacuum system.
6. Rinse with clean water.
7. Repeat as often as necessary for complete oil and grease removal.
8. Finished area can be used for normal foot traffic in 1-5 hours.
9. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

#### **STAIN REMOVAL**

For stain removal troubleshooting use **Poultice Plus** and refer to **Miracle Sealants'** Stain Removal Guide for further information.

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix **Poultice Plus** using distilled water (if you are not sure what the stain is) into a peanut butter like paste.
3. Apply **Poultice Plus** paste to stain about 1/4" thick and overlap the stained area by 1/4".
4. Cover the **Poultice Plus** paste with plastic wrap.
5. Tape the plastic wrap to the surface using non-marking tape to create an "air tight" seal.
6. Allow to dry 24-48 hours or until completely dry to hard clay like paste.
7. Remove plastic wrap from stain.
8. Remove the residual powder/paste away using a wood spoon or spatula.
9. Rinse the area using distilled water.
10. Multiple applications may be necessary to remove stain entirely.
11. Finished area can be used for normal foot traffic in 1-5 hours.
12. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

#### **RESURFACING**

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

Save money in expensive tear out and installation of old porcelain, mosaic and glazed tile by restoring the luster and clean the grout. To restore the luster and deep clean, scrub/buff with a **Miracle Sealants' Marble Master MM 1000** (150 lbs/175rpm) floor machine using **Tile Restor** or **Tile Brite**. **Tile Restor** will deep clean the tile and grout. **Tile Restor** prepares the surface for **Tile Brite** polishing compound. **Tile Brite** is a specialized polishing product that will remove light scratches and increase the gloss of the surface leaving a beautiful satin finish that will last 3 – 5 years. Neither product requires special skills or knowledge.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Wet the tile surface with clean water.

3. Sprinkle **Tile Restor** or **Tile Brite** onto the surface.
4. Buff using a **Miracle Sealants' Marble Master MM 1000** (150 lbs/175 rpm) floor machine equipped with a red or white buffing pad.
5. Buff in a consistent side-to-side movement.
6. Create a slurry solution on the surface and keep moist.
7. Do not allow slurry to dry on the surface.
8. Squeegee the slurry to next section as results are achieved.
9. Work small areas until desired results are achieved.
10. Remove slurry using a wet vacuum.
11. Make sure to rinse areas using **Mira Clean #1** (10:1) in the rinse water.
12. Finished area can be used for normal foot traffic in 1-5 hours.
13. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

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## MAINTENANCE

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Although this type of surface will not show wear as readily as other surfaces, it is wise to keep it as clean as possible.

### **LIGHT CLEANING FOR THE NATURAL LOOK**

For a general cleaning use **Miracle Sealants' Mira Clean #1**.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **Mira Clean #1** to ten parts warm water. For more difficult cleaning issues a mixture of one part **Mira Clean #1** to three parts warm water.
3. Apply **Mira Clean #1** solution using a mop or sponge.
4. Allow solution to dwell 10-20 minutes.
5. Agitate periodically with a medium aggressive brush.
6. Extract all dirty remains with towels or a wet vacuum.
7. Rinse the surface with clean water to eliminate any streaks or residue..
8. Change the water when it becomes dirty or cloudy.
9. Finished area can be used for normal foot traffic in 1-5 hours.
10. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete directions.

### **LIGHT CLEANING FOR COLOR ENHANCEMENT**

Daily cleaning of quarry tile impregnated with **511 Seal & Enhance** can consist of using **Mira Clean #1** as directed previously in this guide.

### **MOLD, MILDEW, BACTERIA SANITATION**

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

For best results in killing mold, mildew, bacteria and other microorganisms use **Miracle Sealants' Miracle Wipes**. **Miracle Wipes** is an EPA Registered product that eliminate 99.9% of common household bacteria, mold, mildew and other microorganisms. **Miracle Wipes** are especially good for food preparation surfaces, kitchen counters, and shower and bath areas.

1. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.
2. Follow directions for use explicitly.

### **COUNTER CLEANING**

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

For counters, using **Miracle Sealants' Counter Kleen** or **Counter Kleen Wipes**, as often as you want, will keep it clean without streaking. **Counter Kleen** is a non-toxic cleaner that is easily sprayed onto the surface and wiped off.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Ready to use. Spray directly onto counter.
3. Wipe dry using a clean dry towel.
4. No rinsing necessary.
5. Finished area can be used immediately.

6. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

**SEALING MAINTENANCE**

Resealing will vary depending on porosity, density, hardness, foot traffic and the elements (indoor or outdoor) the area is exposed to. As a general rule, medium to dense surfaces exposed to heavy foot traffic can be resealed every 1-3 years. Very hard surfaces exposed to heavy foot traffic can be resealed every 3-5 years. It is important to remember that any additional or future applications of **511 Sealants** will require less sealant than originally used.

10\_2008

## PORCELAIN, CERAMIC, MOSAIC & GLAZED TILE - CARE INSTRUCTIONS

These types of tile look beautiful and are very durable when protected and maintained properly. Although these types of surfaces vary in their porosity and abrasive finish, these surfaces can be very difficult to protect and maintain. In the past these challenges have been met with difficulty, exhaustion and great expense. **Miracle Sealants Company** offers the most advanced system for the protection, maintenance and restoration of these surface materials. **Miracle Sealants'** products and procedures, combined with three generations of industry knowledge, will aid you in maintaining the timeless beauty of porcelain, ceramic, mosaic and glazed tile surfaces.

For the best bacteria resistance use **511 Impregnator**.

For the best oil and stain repellency use **511 Porous Plus**.

In any situation where no odor can be present, use **511 H2O Plus** for tile and grout protection.

### NEW INSTALLATIONS

Follow the recommended installation methods and procedures of the Marble Institute of America, Building Stone Institute and Tile Council of America. Allow new installations of setting materials and grout to cure per manufacturer's specification prior to impregnating.

#### SAMPLE TESTING

Due to the differences of each surface, several inconspicuous test patches should be completed with each product to assure maximum performance. **USERS MUST DETERMINE THE SUITABILITY OF THE PRODUCT FOR THEIR INTENDED USE!**

#### SEALING AS A GROUT RELEASE

Although these types of surfaces vary in their porosity, they all can absorb stains from items including the dye in many grouts. To insure the best possible installation, **511 Impregnator** should be applied as a grout release before the grouting process. **511 Impregnator** will resist dye absorption, facilitate grout residue removal (up to 45% faster), and offer superior stain resistance during the installation process.

#### DIRECTIONS

Always test a small area to insure desired results. Do not dilute or thin at any time. Shake well.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. **511** may be applied to damp surfaces 1-2 hours after standing water has been removed.
3. Apply an even application of **511** using a clean white towel.
4. Saturate the surface getting the surface "Wet to the Eye" being careful not to allow **511** into the open ungrouted joints.
5. Allow **511** to dwell for 3-5 minutes.
6. Wipe or buff off any excess **511** before it dries on the surface with terry cloth towels.
7. Reactivating the residue with **511 Impregnator** and immediately buffing with dry terry cloth towels may remove any excess **511** that has dried on the surface creating a residue/film.
8. If the residue has been on the surface for more than a few hours, use **Miracle Sealants' Residue Remover**. Apply directly to the surface and immediately buff or wipe dry with dry terry cloth towels.
9. For **511 H2O Plus**, use warm water and a soft scrub pad to remove excess.
10. Allow **511** to cure 12-72 hours before proceeding with the grouting process.
11. Grout the surface per manufacturer's specifications.
12. Clean all grout residue completely with a clean sponge and water.

With some difficult surfaces it may be necessary to use **Miracle Sealants' GCFR, Phosphoric Acid Cleaner, Sulfamic Acid Crystals, Epoxy Grout Film Remover** or **H2O Strip** to completely remove all grout residue.

#### GROUT SEALING

Although grout can be treated with **511 Impregnator** / **511 Porous Plus** / **511 H2O Plus** within an hour of grout residue removal, it is suggested to allow grout to cure per manufacturer's specification so as not to void any manufacturer warranty on the grout. For existing grout it is not necessary to wait.

1. Apply **511 Impregnator** / **511 Porous Plus** with a paintbrush to grout joints for water, oil and stain resistance.
2. Allow **511** to dwell 3-5 minutes.
3. Wipe or buff off any excess before it dries on the surface with terry cloth towels.

4. Any excess that has dried on the surface creating a residue/film, may be removed by reactivating the residue with **511** and immediately buffing dry with dry terry cloth towels.
5. For **511 H2O Plus**, use warm water and a soft scrub pad to remove excess.
6. Finished area can be used for normal foot traffic in 3-5 hours.
7. Allow **511** to cure 72 hours before subjecting to water, oil and staining materials.
8. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete directions.

#### **SEALING AND THE NATURAL LOOK**

If you are trying to retain the natural look of the tile, we recommend stopping at this point and putting the area into service. This type of finish will require the least amount of maintenance and is recommend for high traffic and food areas for maximum stain and slip protection.

#### **SEALING AND COLOR ENHANCEMENT**

Always test a small area to insure desired results. Do not dilute or thin at any time. Shake well.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

For color enhancement we recommend **Miracle Sealants' 511 Seal & Enhance** impregnator and color enhancer. **511 Seal & Enhance** was designed to enhance the natural color of most porcelain, ceramic, mosaic & glazed tile (results will vary, so be sure to conduct a few, small test areas prior to doing the entire job). In addition to beautifying the tile, **511 Seal & Enhance** offers stain resistance to water, oil and stains of **511 Porous Plus** all in one product.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Apply using a clean white towel.
3. Apply enough to the surface so it is "Wet to the Eye"
4. Do not allow **511 Seal & Enhance** to puddle or air dry on the surface.
5. Work in small areas.
6. At least two applications are necessary to achieve desired enhancement, water, oil and stain resistance.
7. Apply second application after the initial application has dried at least one hour.
8. Remove excess before it dries with terry cloth towels.
9. Excess may be removed by reactivating residue with **511 Seal & Enhance** and immediately buffing dry with dry terry cloth towels.
10. Finished area can be used for normal foot traffic in 3-5 hours.
11. Keep free from water, oil and stains for 72 hours.
12. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete directions.

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## **RESTORATION**

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#### **FLOOR COATING/WAX REMOVAL**

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

To remove existing water base coatings, epoxy grouts and waxes use **Miracle Sealants' H2O Strip** fast acting stripper. To remove existing solvent base coatings, waxes and mastics use **Miracle Sealants' Mira Strip** fast acting stripper.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Apply stripper to the surface undiluted.
3. Allow solution to dwell for 5-20 minutes, agitating periodically with a medium aggressive hand brush for small areas and floor brush and the **Miracle Sealants' Marble Master MM 1000** (150 lbs/175 rpm) floor machine for large areas.
4. Remove all dirty remains with towels or a wet vacuum.
5. Thoroughly rinse surface with clean water.
6. Allow the surface to dry.
7. Multiple applications may be required.
8. **H2O Strip** is alkaline and may affect the surface finish of some tile.
9. Finished area can be used for normal foot traffic in 1-5 hours.
10. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

**HEAVY DUTY CLEANING**

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

To remove hard water deposits, grout residue, efflorescence, rust and other heavy dirt and grime use **Phosphoric Acid Cleaner, GCFR** or **Porcelain & Ceramic Tile Cleaner**.

For hard water deposits and soap scum that may begin to develop in shower and bath surfaces use **Miracle Sealants' Porcelain & Ceramic Tile Cleaner**. Easy to use, and very effective **Porcelain & Ceramic Tile Cleaner** contains mild abrasives in a mild ammonia cleaner.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Simply flip the top of **Porcelain & Ceramic Tile Cleaner** and squeeze some onto a soft, white scrub pad.
3. Scrub in circular motions.
4. Rinse with water and damp wipe the dirt away.
5. For large area, **Porcelain & Ceramic Tile Cleaner** can be applied directly to the honed surface and buffed using a **Marble Master MM 1000** floor machine and stiff brush.
6. Finished area can be used for normal foot traffic in 1-5 hours.
7. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

For the most aggressive cleaning challenges use **Miracle Sealants' Grout & Concrete Film Remover (GCFR)** a strong hydrochloric acid cleaner.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **GCFR** with ten parts water (10:1). Do not use stronger than (3:1).
3. Wet surface to be cleaned with clean water.
4. Apply **GCFR** solution using a brush, towel or mop.
5. Allow solution to dwell 1-5 minutes while keeping the surface damp.
6. Agitate the surface with a brush.
7. Do not allow solution to dry on the surface.
8. Remove excess with towels or wet vacuum.
9. Rinse with clean water and a mixture of **Mira Clean #1** (10:1) to insure complete neutralization.
10. Finished area can be used for normal foot traffic in 1-5 hours.
11. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

For the little less aggressive cleaning challenge use **Miracle Sealants' Phosphoric Acid Cleaner**.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **Phosphoric Acid Cleaner** with ten parts water (10:1). Do not use stronger than (3:1).
3. Wet surface to be cleaned with clean water.
4. Apply solution using a brush, towel or mop.
5. Allow solution to dwell 1-5 minutes while keeping the surface damp.
6. Agitate the surface with a brush.
7. Do not allow solution to dry on the surface.
8. Remove excess with towels or wet vacuum.
9. Rinse with clean water and a mixture of **Mira Clean #1** (10:1) to insure complete neutralization.
10. Finished area can be used for normal foot traffic in 1-5 hours.
11. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

**STAIN REMOVAL**

For stain removal troubleshooting use **Poultice Plus** and refer to the **Miracle Sealants' Stain Removal Guide** for further information.

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix **Poultice Plus** using distilled water (if you are not sure what the stain is) into a peanut butter like paste.
3. Apply **Poultice Plus** paste to stain about 1/4" thick and overlap the stained area by 1/4".
4. Cover the **Poultice Plus** paste with plastic wrap.
5. Tape the plastic wrap to the surface using non-marking tape to create an "air tight" seal.
6. Allow to dry 24-48 hours or until completely dry to hard clay like paste.
7. Remove plastic wrap from stain.
8. Remove the residual powder/paste away using a wood spoon or spatula.
9. Rinse the area using distilled water.
10. Multiple applications may be necessary to remove stain entirely.
11. Finished area can be used for normal foot traffic in 1-5 hours.
12. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

### **RESURFACING**

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

Save money in expensive tear out and installation of old porcelain, mosaic and glazed tile by restoring the luster and clean the grout. To restore the luster and deep clean, scrub/buff with a **Miracle Sealants' Marble Master MM 1000** (150 lbs/175rpm) floor machine using **Tile Restor** or **Tile Brite**. **Tile Restor** prepares the surface for **Tile Brite** polishing compound. **Tile Brite** is a specialized polishing product that will remove light scratches and enhance the gloss of the surface leaving a beautiful satin finish that will last 3 – 5 years. Neither product requires special skills or equipment, however, results may be enhanced using a **Marble Master MM 1000** floor machine with the appropriate pad or brush.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Wet the tile surface with clean water.
3. Sprinkle **Tile Restor** or **Tile Brite** onto the surface.
4. Buff using a **Miracle Sealants' Marble Master MM 1000** (150 lbs/170 rpm) floor machine equipped with a red buffing pad.
5. Buff in a consistent side-to-side movement.
6. Create a slurry solution on the surface and keep moist.
7. Do not allow slurry to dry on the surface.
8. Squeegee slurry to next section as results are achieved.
9. Work small areas until desired results are achieved.
10. Remove slurry using a wet vacuum.
11. Make sure to rinse areas using **Mira Clean #1** (10:1) in the rinse water.
12. Finished area can be used for normal foot traffic in 1-5 hours.
13. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

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## **MAINTENANCE**

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Although this type of surface will not show wear as readily as other surfaces, it is wise to keep it as clean as possible.

### **LIGHT CLEANING FOR THE NATURAL LOOK**

For cleaning in kitchen and food prep areas use **Miracle Sealants' Mira Clean #1**.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **Mira Clean #1** to ten parts warm water. For more difficult cleaning issues a mixture of one part **Mira Clean #1** to three parts warm water.
3. Apply **Mira Clean #1** solution using a mop or sponge.
4. Allow solution to dwell 10-20 minutes.
5. Agitate periodically with a medium aggressive brush.
6. Extract all dirty remains with towels or a wet vacuum.
7. Rinse the surface with clean water to eliminate any streaks or residue.

8. Change the water when it becomes dirty or cloudy.
9. Finished area can be used for normal foot traffic in 1-5 hours.
10. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete directions.

For hard water deposits and soap scum that may begin to develop in shower and bath surfaces as well as other dirt and grime use **Miracle Sealants' Porcelain & Ceramic Tile Cleaner**. Easy to use, and very effective **Porcelain & Ceramic Tile Cleaner** contains mild abrasives in a mild ammonia cleaner.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Simply flip the top and squeeze some onto a soft, white scrub pad.
3. Scrub in circular motions.
4. Rinse with water and damp wipe the dirt away.
5. For large area, **Porcelain & Ceramic Tile Cleaner** can be applied directly to the honed surface and buffed using a **Marble Master MM 1000** floor machine.
6. Finished area can be used for normal foot traffic in 1-5 hours.
7. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

#### **LIGHT CLEANING FOR COLOR ENHANCEMENT**

Daily cleaning of tiles impregnated with **511 Seal & Enhance** can consist of using **Mira Clean #1** as directed previously in this guide.

#### **MOLD, MILDEW, BACTERIA SANITATION**

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

For best results in killing mold, mildew, bacteria and other microorganisms use **Miracle Sealants' Miracle Wipes**. **Miracle Wipes** is an EPA Registered product that eliminate 99.9% of common household bacteria, mold, mildew and other microorganisms. **Miracle Wipes** are especially good for food preparation surfaces, kitchen counters, and shower and bath areas.

1. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.
2. Follow directions for use explicitly.

#### **COUNTER CLEANING**

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

For counters, using **Miracle Sealants' Counter Kleen** or **Counter Kleen Wipes**, as often as you want, will keep it clean without streaking. **Counter Kleen** is a non-toxic cleaner that is easily sprayed onto the surface and wipe off.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Ready to use. Spray directly onto counter.
3. Wipe dry using a clean dry towel.
4. No rinsing necessary.
5. Finished area can be used immediately.
6. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

#### **SEALING MAINTENANCE**

Resealing will vary depending on porosity, density, hardness, foot traffic and the elements (indoor or outdoor) the area is exposed to. As a general rule, medium to dense surfaces exposed to heavy foot traffic can be resealed every 1-3 years. Very hard surfaces exposed to heavy foot traffic can be resealed every 3-5 years. It is important to remember that any additional or future applications of **511 Sealants** will require less sealant than originally used.

10\_2008



## LIMESTONE - CARE INSTRUCTIONS

Limestone looks beautiful and is very durable when protected and maintained properly. Limestone is more porous than many other natural stones. Due to the high porosity, limestone is much more susceptible than other natural stones to the absorption of water, oils, grease, dirt and grime, and can be very difficult to protect and maintain. In the past these challenges have been met with difficulty, exhaustion and great expense. **Miracle Sealants Company** offers the most advanced system for the protection, maintenance and restoration of these other natural stone, tile, grout and masonry surfaces. **Miracle Sealants'** products and procedures, combined with three generations of industry knowledge, will aid you in maintaining the timeless beauty of these surfaces.

### **POINTS OF INTEREST**

Foot traffic will wear away the factory finish through abrasion. The floor will slowly develop the natural "patina" through normal use.

Acids in fruit juices, coffee, wine, vinegar and many household chemicals will etch, dull and change the surface of even honed limestone.

For the best bacteria resistance use **511 Impregnator**.

For the best oil and stain repellency use **511 Porous Plus**.

In any situation where no odor can be present, use **511 H2O Plus** for stone and grout protection.

### **NEW INSTALLATIONS**

Follow the recommended installation methods and procedures of the Marble Institute of America, Building Stone Institute and Tile Council of America. Allow new installations of setting materials and grout to cure per manufacturer's specification prior to impregnating.

### **SAMPLE TESTING**

Due to the differences of each surface, several inconspicuous test patches should be completed with each product to assure maximum performance. **USERS MUST DETERMINE THE SUITABILITY OF THE PRODUCT FOR THEIR INTENDED USE!**

### **SEALING AS A GROUT RELEASE**

Limestone is very porous and can absorb stains from many items including the dye in many grouts. To insure the best possible installation, **511 Porous Plus** should be applied as a grout release before the grouting process. **511 Porous Plus** will resist dye absorption, facilitate grout residue removal (up to 45% faster), and offer superior stain resistance during the installation process.

### **DIRECTIONS**

Always test a small area to insure desired results. Do not dilute at any time. Shake well.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. **511** may be applied to damp surfaces 1-2 hours after standing water has been removed.
3. Apply an even application of **511** using a clean white towel.
4. Saturate the surface getting the surface "Wet to the Eye" being careful not to allow **511** into the open ungrouted joints.
5. Allow **511** to dwell for 3-5 minutes.
6. Wipe or buff off any excess **511** before it dries on the surface with dry terry cloth towels.
7. Reactivating the residue with **511 Impregnator** and immediately buffing dry with dry terry cloth towels may remove any excess **511** that has dried on the surface creating a residue/film.
8. If the residue has been on the surface for more than a few hours, use **Miracle Sealants' Residue Remover**. Apply directly to the surface and immediately buff or wipe dry with dry terry cloth towels.
9. For **511 H2O Plus**, use warm water and a soft scrub pad to remove excess.
10. Allow **511** to cure 12-72 hours before proceeding with the grouting process.
11. Grout the surface per manufacturer's specifications.
12. Clean all grout residue completely with a clean sponge and water.
13. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete directions.

With some difficult surfaces it may be necessary to use **Miracle Sealants' GCFR, Phosphoric Acid Cleaner, Sulfamic Acid Crystals, Epoxy Grout Film Remover** or **H2O Strip** to completely remove all grout residue. Keep in mind that limestone is acid sensitive and to strong of a mixture may etch/dull the surface. A few small test areas are always recommended.

**GROUT SEALING**

Although grout can be treated with **511 Impregnator**/ **511 Porous Plus** / **511 H2O Plus** within an hour of grout residue removal, it is suggested to allow grout to cure per manufacturer's specification so as not to void any manufacturer warranty on the grout. For existing grout it is not necessary to wait.

1. Apply **511 Impregnator**/**511 Porous Plus** with a paintbrush to grout joints for water, oil and stain resistance.
2. Allow **511** to dwell 3-5 minutes.
3. Wipe or buff off any excess before it dries on the surface with dry terry cloth towels.
4. Any excess that has dried on the surface creating a residue/film, may be removed by reactivating the residue with **511** and immediately buffing dry with dry terry cloth towels.
5. For **511 H2O Plus**, use warm water and a soft scrub pad to remove excess.
6. Finished area can be used for normal foot traffic in 3-5 hours.
7. Allow **511** to cure 72 hours before subjecting to water, oil and staining materials.
8. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete directions.

Apply **511 Porous Plus** with a paintbrush to all grout joints for water and stain protection. On large areas the entire surface may be wiped and all excess sealer on the limestone should be wiped away with a clean dry terry cloth towels within 3 - 5 minutes.

**SEALING AND THE NATURAL LOOK**

If you are trying to retain the natural look of the stone, we recommend stopping at this point and putting the area into service. This type of finish will require the least amount of maintenance and is recommend for high traffic and food areas for maximum stain and slip protection.

**MAINTENANCE**

Although this type of surface will not show wear as readily as other surfaces, it is wise to keep it as clean as possible. Daily sweeping and use of a dust mop will help keep grit, dirt and grime off of the surface which may cause scratches.

**LIGHT CLEANING FOR THE NATURAL LOOK**

Daily cleaning should consist of using **Mira Soap**. **Mira Soap** can also be used as an alternative for ongoing maintenance. **Mira Soap** will clean and protect in one step while adding a slight patina to the finish. Apply **Mira Soap** as often as you like as it will hide imperfections, scratches and not build-up on the stone surface. **Mira Soap** can be used on walls and counters.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **Mira Soap** to ten parts warm water for first 6 months. After 6 months mix one part **Mira Soap** to twenty parts warm water.
3. Apply **Mira Soap** solution using a mop or sponge.
4. Do not rinse.
5. Allow **Mira Soap** solution to dry (for additional luster the area can be dry buffed with a white nylon buffing pad).
6. Change the water when it becomes dirty or cloudy.
7. Finished area can be used for normal foot traffic in 1-5 hours.
8. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete directions.

In kitchen and food preparation areas use **Miracle Sealants' Mira Clean #1**. Can go back to using **Mira Soap** after cleaning with **Mira Clean #1**.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **Mira Clean #1** to ten parts warm water. For more difficult cleaning issues a mixture of one part **Mira Clean #1** to three parts warm water.
3. Apply **Mira Clean #1** solution using a mop or sponge.
4. Allow solution to dwell 10-20 minutes.
5. Agitate periodically with a soft brush.
6. Extract all dirty remains with towels or a wet vacuum.
7. Rinse the surface with clean water to eliminate any streaks or residue..
8. Change the water when it becomes dirty or cloudy.
9. Finished area can be used for normal foot traffic in 1-5 hours.
10. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete directions.

**SEALING AND COLOR ENHANCEMENT**

Always test a small area to insure desired results. Do not dilute or thin at any time. Shake well.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

For color enhancement we recommend **Miracle Sealants' 511 Seal & Enhance** impregnator and color enhancer. **511 Seal & Enhance** was designed to enhance the natural color of most porcelain, ceramic, mosaic & glazed tile (results will vary, so be sure to conduct a few, small test areas prior to doing the entire job). In addition to beautifying the tile, **511 Seal & Enhance** offers stain resistance to water, oil and stains of **511 Porous Plus** all in one product.

**MAINTENANCE**

Although this type of surface will not show wear as readily as other surfaces, it is wise to keep it as clean as possible. Daily sweeping and use of a dust mop will help retain the natural look.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **Mira Soap** to ten parts warm water for first 6 months. After 6 months mix one part **Mira Soap** to twenty parts warm water.
3. Apply **Mira Soap** solution using a mop or sponge.
4. Do not rinse.
5. Allow **Mira Soap** solution to dry.
6. Change the water when it becomes dirty or cloudy.
7. Finished area can be used for normal foot traffic in 1-5 hours.
8. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete directions.

In kitchen and food preparation areas use **Miracle Sealants' Mira Clean #1**. Can go back to using **Mira Soap** after cleaning with **Mira Clean #1**.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **Mira Clean #1** to ten parts warm water. For more difficult cleaning issues a mixture of one part **Mira Clean #1** to three parts warm water.
3. Apply **Mira Clean #1** solution using a mop or sponge.
4. Allow solution to dwell 10-20 minutes.
5. Agitate periodically with a medium brush.
6. Extract all dirty remains with towels or a wet vacuum.
7. Rinse the surface with clean water to eliminate any streaks or residue..
8. Change the water when it becomes dirty or cloudy.
9. Finished area can be used for normal foot traffic in 1-5 hours.
10. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete directions.

**LIGHT CLEANING FOR COLOR ENHANCEMENT**

Daily cleaning of stone impregnated with **511 Seal & Enhance** can consist of using **Mira Soap** or **Mira Clean #1** as directed previously in this guide.

**RESTORATION****FLOOR COATING/WAX REMOVAL**

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

To remove existing water base coatings and waxes use **Miracle Sealants' H2O Strip** fast acting stripper. To remove existing solvent base coatings, waxes and mastics use **Miracle Sealants' Mira Strip** fast acting stripper.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Apply stripper to the surface undiluted.
3. Allow solution to dwell for 5-20 minutes, agitating periodically with a medium aggressive hand brush for small areas and floor brush and the **Miracle Sealants' Marble Master MM 1000** (150 lbs/175 rpm) floor machine for large areas.
4. Remove all dirty remains with towels or a wet vacuum.
5. Thoroughly rinse surface with clean water.

6. Allow the surface to dry.
7. Multiple applications may be required.
8. **H<sub>2</sub>O Strip** is alkaline and may affect the surface finish of some stone.
9. Finished area can be used for normal foot traffic in 1-5 hours.
10. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

### **HEAVY DUTY CLEANING**

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

To remove hard water deposits, grout residue, efflorescence, rust and other heavy dirt and grime use **Liquid Poultice**, **Phosphoric Acid Cleaner**, **GCFR** or **Porcelain & Ceramic Tile Cleaner**.

Acid Sensitive Surfaces should be cleaned with **Miracle Sealants' Liquid Poultice**, a non-acidic deep cleaner designed specifically for acid sensitive stone surfaces. Use of **Liquid Poultice** will not affect the natural finish of the stone.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **Liquid Poultice Part A** with one part **Liquid Poultice Part B** with 2 equal parts warm water.
3. Wet the surface to be cleaned.
4. Apply **Liquid Poultice** solution using a soft brush, towel or mop.
5. Allow solution to dwell 40 minutes while keeping the surface damp.
6. Agitate the surface with a soft brush periodically.
7. Remove excess with towels or wet vacuum.
8. Rinse with clean water.
9. On walls a fine mist may be applied and allowed to dry up to 72 hours.
10. Finished area can be used for normal foot traffic within 1-5 hours.
11. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

For hard water deposits and soap scum that may begin to develop in shower and bath surfaces use **Miracle Sealants' Porcelain & Ceramic Tile Cleaner**. Easy to use, and very effective **Porcelain & Ceramic Tile Cleaner** contains mild abrasives in a mild ammonia cleaner. Not only does it clean but also it will tend to "even out" the blotchy look of smooth honed stone. Be sure to conduct a few, small test areas to determine suitability of this product on the limestone. As it may alter the gloss slightly.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Simply flip the top and squeeze some onto a soft, white scrub pad.
3. Scrub in circular motions.
4. Rinse with water and damp wipe the dirt away.
5. For large area, **Porcelain & Ceramic Tile Cleaner** can be applied directly to the honed surface and buffed using a **Marble Master MM 1000** floor machine.
6. Finished area can be used for normal foot traffic in 1-5 hours.
7. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

For the most aggressive cleaning challenges use **Miracle Sealants' Grout & Concrete Film Remover (GCFR)** a strong hydrochloric acid cleaner.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **GCFR** with ten parts water (10:1). Do not use stronger than (3:1).
3. Wet surface to be cleaned with clean water.
4. Apply **GCFR** solution using a brush, towel or mop.
5. Allow solution to dwell 1-5 minutes while keeping the surface damp.
6. Agitate the surface with a brush.
7. Do not allow solution to dry on the surface.
8. Remove excess with towels or wet vacuum.
9. Rinse with clean water and a mixture of **Mira Clean #1** (10:1) to insure complete neutralization.

10. Finished area can be used for normal foot traffic in 1-5 hours.
11. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

For the little less aggressive cleaning challenge use **Miracle Sealants' Phosphoric Acid Cleaner**.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **Phosphoric Acid Cleaner** with ten parts water (10:1). Do not use stronger than (3:1).
3. Wet surface to be cleaned with clean water.
4. Apply solution using a brush, towel or mop.
5. Allow solution to dwell 1-5 minutes while keeping the surface damp.
6. Agitate the surface with a brush.
7. Do not allow solution to dry on the surface.
8. Remove excess with towels or wet vacuum.
9. Rinse with clean water and a mixture of **Mira Clean #1** (10:1) to insure complete neutralization.
10. Finished area can be used for normal foot traffic in 1-5 hours.
11. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

#### **STAIN REMOVAL**

For stain removal troubleshooting use **Poultice Plus** and refer to the **Miracle Sealants' Stain Removal Guide** for further information.

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix **Poultice Plus** using distilled water (if you are not sure what the stain is) into a peanut butter like paste.
3. Apply **Poultice Plus** paste to stain about 1/4" thick and overlap the stain by 1/4".
4. Cover the **Poultice Plus** paste with plastic wrap.
5. Tape the plastic wrap to the surface using non-marking tape to create an "air tight" seal.
6. Allow to dry 24-48 hours or until completely dry to hard clay like paste.
7. Remove plastic wrap from stain.
8. Remove the residual powder/paste away using a wood spoon or spatula.
9. Rinse the area using distilled water.
10. Multiple applications may be necessary to remove stain entirely.
11. Finished area can be used for normal foot traffic in 1-5 hours.
12. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

#### **MOLD, MILDEW, BACTERIA SANITATION**

For best results in killing mold, mildew, bacteria and other microorganisms use **Miracle Sealants' Miracle Wipes**. **Miracle Wipes** is an EPA Registered product that eliminate 99.9% of common household bacteria, mold, mildew and other microorganisms. **Miracle Wipes** are especially good for food preparation surfaces, kitchen counters, and shower and bath areas.

Refer to the Product Data Sheet & Label for complete instructions.

Follow directions for use explicitly.

#### **COUNTER CLEANING**

For limestone counters (especially polished or high honed), using **Counter Kleen** or **Counter Kleen Wipes**, as often as you want will keep it clean without streaking. **Counter Kleen** and **Counter Kleen Wipes** are a non-toxic cleaner that is easily sprayed onto the surface and wiped off.

1. Ready to use. Spray directly onto counter.
2. Wipe dry using a clean dry towel.
3. No rinsing necessary.
4. Finished area can be used immediately.
5. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

**RESURFACING/REFINISHING**

To restore the luster low gloss, satin, honed finish and deep clean, scrub/buff using **Miracle Sealants' Mira Hone** (non-acid powder) as directed. These products will remove light scratches and imperfections.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Wet the stone surface with clean water.
3. Sprinkle **Mira Hone** onto the surface.
4. Buff using a **Miracle Sealants' Marble Master MM 1000** (150 lbs/170 rpm) floor machine equipped with a natural fiber brush, white nylon pad or polishing pad.
5. Buff in a consistent side-to-side movement.
6. Create a slurry solution on the surface and keep moist.
7. Do not allow slurry to dry on the surface.
8. Squeegee slurry to next section as results are achieved.
9. Work small areas until desire results are achieved.
10. Remove slurry using a wet vacuum.
11. Make sure to rinse areas using **Mira Clean #1** (10:1) in the rinse water.
12. Re-treat surface with **511 Porous Plus** as directed.
13. Finished area can be used for normal foot traffic in 1-5 hours.
14. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

Another option is to apply **Porcelain & Ceramic Tile Cleaner** directly from the bottle. **Porcelain & Ceramic Tile Cleaner** will remove light scratches, imperfections and deep clean smooth, honed surfaces. Use as previously directed in this guide.

For heavy scratches, damage and imperfections, **Miracle Sealants' Pyramid Diamond Abrasives** should be used with a **Marble Master MM 1000** or **MM 2500** floor machine, by a **stone care professional only!** Heavy restoration is the process of removing the accumulation of scratches and wear by sanding the stone with the appropriate Pyramid Diamond Abrasive pad. This is the same process utilized in many processing plants to achieve the factory finish.

**SEALING MAINTENANCE**

Resealing will vary depending on porosity, density, hardness, foot traffic and the elements (indoor or outdoor) the area is exposed to. As a general rule, medium to dense surfaces exposed to heavy foot traffic can be resealed every 1-3 years. Very hard surfaces exposed to heavy foot traffic can be resealed every 3-5 years. It is important to remember that any additional or future applications of **511 Sealants** will require less sealant than originally used.

**SPECIAL NOTE**

Foot traffic will wear the factory finish through abrasion. Acids in fruit juices, coffee, wine, vinegar and many household cleaners will etch the surface removing the factory finish of all limestone, marble, travertine and other calcareous stone even when treated with an Impregnator/Penetrating Sealer.

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## HONED, TEXTURED, UNPOLISHED STONE

Honed, Flamed, Tumbled, Cleft, Split Faced, Sandblasted & Bush Hammered stone.

### CARE INSTRUCTIONS

These types of surface finishes look beautiful and are very durable when protected and maintained properly. Textured, unpolished stone is typically more porous than one that is smooth and polished. Due to the increased porosity and more abrasive finish, these surfaces can be very difficult to protect and maintain. In the past, these challenges have been met with difficulty, exhaustion and great expense. **Miracle Sealants Company** offers the most advanced system for the protection, maintenance and restoration of these other natural stone, tile, grout and masonry surfaces. **Miracle Sealants'** products and procedures, combined with three generations of industry knowledge, will aid you in maintaining the timeless beauty of these surfaces.

### POINTS OF INTEREST

Foot traffic will wear away the factory finish through abrasion. The floor will slowly develop the natural "patina" through normal use.

Acids in fruit juices, coffee, wine, vinegar and many household chemicals will etch, dull and change the surface of even honed marble.

For the best bacteria resistance use **511 Impregnator**.

For the best oil and stain repellency use **511 Porous Plus**.

In any situation where no odor can be present, use **511 H2O Plus** for stone grout protection.

## NEW INSTALLATIONS

Follow the recommended installation methods and procedures of the Marble Institute of America, Building Stone Institute and Tile Council of America. Allow new installations of setting materials and grout to cure per manufacturer's specification prior to impregnating.

### SAMPLE TESTING

Due to the differences of each surface, several inconspicuous test patches should be completed with each product to assure maximum performance. **USERS MUST DETERMINE THE SUITABILITY OF THE PRODUCT FOR THEIR INTENDED USE!**

### SEALING AS A GROUT RELEASE

Although these types of surfaces vary in their porosity, they all can absorb stains from items including the dye in many grouts. To insure the best possible installation, **511 Impregnator** or **511 Porous Plus** should be applied as a grout release before the grouting process. Using a **511 Sealant** will resist dye absorption, facilitate grout residue removal (up to 45% faster), and offer superior stain resistance during the installation process.

### DIRECTIONS

Always test a small area to insure desired results. Do not dilute or thin at any time. Shake well.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. **511** may be applied to damp surfaces 1-2 hours after standing water has been removed.
3. Apply an even application of **511** using a clean white towel.
4. Saturate the surface getting the surface "Wet to the Eye" being careful not to allow **511** into the open ungrouted joints.
5. Allow **511** to dwell for 3-5 minutes.
6. Wipe or buff off any excess **511** before it dries on the surface with dry terry cloth towels.
7. Any excess **511** that has dried on the surface creating a residue/film, may be removed by reactivating the residue with **511 Impregnator** and immediately buffing dry with dry terry cloth towels.
8. If the residue has been on the surface for more than a few hours, use **Miracle Sealants' Residue Remover**. Apply directly to the surface and immediately buff or wipe dry with dry terry cloth towels.
9. For **511 H2O Plus**, use warm water and a soft scrub pad to remove excess.
10. Allow **511** to cure 12-72 hours before proceeding with the grouting process.
11. Grout the surface per manufacturer's specifications.
12. Clean all grout residue completely with a clean sponge and water.
13. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

With some difficult surfaces it may be necessary to use **Miracle Sealants' GCFR, Phosphoric Acid Cleaner, Sulfamic Acid**

**Crystals, Epoxy Grout Film Remover or H2O Strip** to completely remove all grout residue.

### **GROUT SEALING**

Although grout can be treated with **511 Impregnator**/ **511 Porous Plus** / **511 H2O Plus** within an hour of grout residue removal, it is suggested to allow grout to cure per manufacturer's specification so as not to void any manufacturer warranty on the grout. For existing grout it is not necessary to wait.

1. Apply **511 Impregnator/511 Porous Plus** with a paint brush to grout joints for water, oil and stain resistance.
2. Allow **511** to dwell 3-5 minutes.
3. Wipe or buff off any excess before it dries on the surface with terry cloth towels.
4. Any excess that has dried on the surface creating a residue/film, may be removed by reactivating the residue with **511** and immediately buffing dry with terry cloth towels.
5. For **511 H2O Plus**, use warm water and a soft scrub pad to remove excess.
6. Finished area can be used for normal foot traffic in 3-5 hours.
7. Allow **511** to cure 72 hours before subjecting to water, oil and staining materials.
8. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete directions.

### **SEALING AND THE NATURAL LOOK**

If you are trying to retain the natural look of the stone, we recommend stopping at this point and putting the area into service. This type of finish will require the least amount of maintenance and is recommend for high traffic and food areas for maximum stain and slip protection.

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## **MAINTENANCE**

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Although this type of surface will not show wear as readily as other surfaces, it is wise to keep it as clean as possible. Daily sweeping and use of a dust mop will help retain the natural look.

### **LIGHT CLEANING FOR THE NATURAL LOOK**

Daily cleaning should consist of using **Mira Soap**. **Mira Soap** can also be used as an alternative for ongoing maintenance when more "patina" is desired on the stone. **Mira Soap** will clean and protect in one step while adding a slight patina to the finish. Apply **Mira Soap** as often as you like as it will hide imperfections, scratches and not build-up on the stone surface. **Mira Soap** can also be used on walls and counters.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **Mira Soap** to ten parts warm water for first 6 months. After 6 months mix one part **Mira Soap** to twenty parts warm water.
3. Apply **Mira Soap** solution using a mop or sponge.
4. Do not rinse.
5. Allow **Mira Soap** solution to dry.
6. Change the water when it becomes dirty or cloudy.
7. Finished area can be used for normal foot traffic in 1-5 hours.
8. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete directions.

In kitchen and food preparation areas use **Miracle Sealants' Mira Clean #1**. Can go back to using **Mira Soap** after cleaning with **Mira Clean #1**.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **Mira Clean #1** to ten parts warm water. For more difficult cleaning issues a mixture of one part **Mira Clean #1** to three parts warm water.
3. Apply **Mira Clean #1** solution using a mop or sponge.
4. Allow solution to dwell 10-20 minutes.
5. Agitate periodically with a medium brush.
6. Extract all dirty remains with towels or a wet vacuum.
7. Rinse the surface with clean water to eliminate any streaks or residue..
8. Change the water when it becomes dirty or cloudy.
9. Finished area can be used for normal foot traffic in 1-5 hours.
10. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete directions.



**COLOR ENHANCEMENT**

Always test a small area to insure desired results. Do not dilute or thin at any time. Shake well.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

For color enhancement we recommend **Miracle Sealants' 511 Seal & Enhance** natural stone impregnator and color enhancer. **511 Seal & Enhance** was designed to enhance the natural color and texture of all flamed, tumbled, sandblasted and textured natural & cast stone surfaces. In addition to beautifying the stone, **511 Seal & Enhance** offers stain resistance to water, oil and stains of **511 Porous Plus** all in one product.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Apply using a clean white towel.
3. Apply enough to the surface so it is "Wet to the Eye"
4. Do not allow **511 Seal & Enhance** to puddle or air dry on the surface.
5. Work in small areas.
6. At least two applications are necessary to achieve desired enhancement, water, oil and stain resistance.
7. Apply second application after the initial application has dried at least one hour.
8. Remove excess before it dries with dry terry cloth towels.
9. Excess may be removed by reactivating residue with **511 Seal & Enhance** and immediately buffing dry with dry terry cloth towels.
10. Finished area can be used for normal foot traffic in 3-5 hours.
11. Keep free from water, oil and stains for 72 hours.
12. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete directions.

**LIGHT CLEANING FOR COLOR ENHANCEMENT**

Daily cleaning of stone impregnated with **511 Seal & Enhance** can consist of using **Mira Soap** or **Mira Clean #1** as directed previously in this guide.

**RESTORATION****FLOOR COATING/WAX REMOVAL**

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

To remove existing water base coatings and waxes use **Miracle Sealants' H2O Strip** fast acting stripper. To remove existing solvent base coatings, waxes and mastics use **Miracle Sealants' Mira Strip** fast acting stripper.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Apply stripper to the surface undiluted.
3. Allow solution to dwell for 5-20 minutes, agitating periodically with a medium aggressive hand brush for small areas and floor brush and the **Miracle Sealants' Marble Master MM 1000** (150 lbs/175 rpm) floor machine for large areas.
4. Remove all dirty remains with towels or a wet vacuum.
5. Thoroughly rinse surface with clean water.
6. Allow the surface to dry.
7. Multiple applications may be required.
8. **H2O Strip** is alkaline and may affect the surface finish of some stone.
9. Finished area can be used for normal foot traffic in 1-5 hours.
10. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

**HEAVY DUTY CLEANING**

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

To remove hard water deposits, grout residue, efflorescence, rust and other heavy dirt and grime use **Liquid Poulitice, Phosphoric Acid Cleaner, GCFR** or **Porcelain & Ceramic Tile Cleaner**.

Acid Sensitive Surfaces should be cleaned with **Miracle Sealants' Liquid Poulitice**, a non-acidic deep cleaner designed specifically for acid sensitive stone surfaces. Use of **Liquid Poulitice** will not affect the natural finish of the stone.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **Liquid Poulitice Part A** with one part **Liquid Poulitice Part B** with 2 equal parts warm water.
3. Wet the surface to be cleaned.
4. Apply **Liquid Poulitice** solution using a soft brush, towel or mop.
5. Allow solution to dwell 40 minutes while keeping the surface damp.
6. Agitate the surface with a soft brush periodically.
7. Remove excess with towels or wet vacuum.
8. Rinse with clean water.
9. On walls a fine mist may be applied and allowed to dry up to 72 hours.
10. Finished area can be used for normal foot traffic within 1-5 hours.
11. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

For hard water deposits and soap scum that may begin to develop in shower and bath surfaces use **Miracle Sealants' Porcelain & Ceramic Tile Cleaner**. Easy to use, and very effective **Porcelain & Ceramic Tile Cleaner** contains mild abrasives in a mild ammonia cleaner. Not only does it clean but also it will tend to "even out" the blotchy look of smooth honed stone. Not for use on textured surfaces.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Simply flip the top and squeeze some onto a soft, white scrub pad.
3. Scrub in circular motions.
4. Rinse with water and damp wipe the dirt away.
5. For large area, **Porcelain & Ceramic Tile Cleaner** can be applied directly to the honed surface and buffed using a **Marble Master MM 1000** floor machine.
6. Finished area can be used for normal foot traffic in 1-5 hours.
7. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

For the most aggressive cleaning challenges use **Miracle Sealants' Grout & Concrete Film Remover (GCFR)** a strong hydrochloric acid cleaner.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **GCFR** with ten parts water (10:1). Do not use stronger than (3:1).
3. Wet surface to be cleaned with clean water.
4. Apply **GCFR** solution using a brush, towel or mop.
5. Allow solution to dwell 1-5 minutes while keeping the surface damp.
6. Agitate the surface with a brush.
7. Do not allow solution to dry on the surface.
8. Remove excess with towels or wet vacuum.
9. Rinse with clean water and a mixture of **Mira Clean #1** (10:1) to insure complete neutralization.
10. Finished area can be used for normal foot traffic in 1-5 hours.
11. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

For a little less aggressive cleaning challenge use **Miracle Sealants' Phosphoric Acid Cleaner**.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **Phosphoric Acid Cleaner** with ten parts water (10:1). Do not use stronger than (3:1).
3. Wet surface to be cleaned with clean water.

4. Apply solution using a brush, towel or mop.
5. Allow solution to dwell 1-5 minutes while keeping the surface damp.
6. Agitate the surface with a brush.
7. Do not allow solution to dry on the surface.
8. Remove excess with towels or wet vacuum.
9. Rinse with clean water and a mixture of **Mira Clean #1** (10:1) to insure complete neutralization.
10. Finished area can be used for normal foot traffic in 1-5 hours.
11. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

#### **STAIN REMOVAL**

For stain removal troubleshooting use **Poultice Plus** and refer to the **Miracle Sealants'** Stain Removal Guide for further information.

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix **Poultice Plus** using distilled water (if you are not sure what the stain is) into a peanut butter like paste.
3. Apply **Poultice Plus** paste to stain about 1/4" thick and overlap the stained area by 1/4".
4. Cover the **Poultice Plus** paste with plastic wrap.
5. Tape the plastic wrap to the surface using non-marking tape to create an "air tight" seal.
6. Allow to dry 24-48 hours or until completely dry to hard clay like paste.
7. Remove plastic wrap from stain.
8. Remove the residual powder/paste away using a wood spoon or spatula.
9. Rinse the area using distilled water.
10. Multiple applications may be necessary to remove stain entirely.
11. Finished area can be used for normal foot traffic in 1-5 hours.
12. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

#### **MOLD, MILDEW, BACTERIA SANITATION**

For best results in killing mold, mildew, bacteria and other microorganisms use **Miracle Sealants' Miracle Wipes**. **Miracle Wipes** is an EPA Registered product that eliminate 99.9% of common household bacteria, mold, mildew and other microorganisms. **Miracle Wipes** are especially good for food preparation surfaces, kitchen counters, and shower and bath areas.

Follow directions for use explicitly.

#### **COUNTER CLEANING**

For counters (especially high honed), using **Miracle Sealants' Counter Kleen** or **Counter Kleen Wipes**, as often as you want, will keep it clean without streaking. **Counter Kleen** is a non-toxic cleaner that is easily sprayed onto the surface and wipe off.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Ready to use. Spray directly onto counter.
3. Wipe dry using a clean dry towel.
4. No rinsing necessary.
5. Finished area can be used immediately.
6. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

#### **RESURFACING/REFINISHING**

To restore the luster low gloss, satin, honed finish and deep clean, scrub/buff using **Miracle Sealants' Mira Hone** (non-acid powder) as directed. These products will remove light scratches and imperfections. As well as give a more uniform look to honed materials that typically have a blotchy look to them.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Wet the stone surface with clean water.
3. Sprinkle **Mira Hone** onto the surface.

4. Buff using a **Miracle Sealants' Marble Master MM 1000** (150 lbs/170 rpm) floor machine equipped with a natural fiber brush, white nylon pad or polishing pad.
5. Buff in a consistent side-to-side movement.
6. Create a slurry solution on the surface and keep moist.
7. Do not allow slurry to dry on the surface.
8. Squeegee slurry to next section as results are achieved.
9. Work small areas until desired results are achieved.
10. Remove slurry using a wet vacuum.
11. Make sure to rinse areas using **Mira Clean #1** (10:1) in the rinse water.
12. Re-treat surface with **511 Impregnator** as directed.
13. Finished area can be used for normal foot traffic in 1-5 hours.
14. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

Another option is to apply **Porcelain & Ceramic Tile Cleaner** directly from the bottle. **Porcelain & Ceramic Tile Cleaner** will remove light scratches, imperfections and deep clean smooth, honed surfaces. Use as previously directed in this guide.

For heavy scratches, damage and imperfections, **Miracle Sealants' Pyramid Diamond Abrasives** should be used with a **Marble Master MM 1000** or **MM 2500** floor machine, by a **stone care professional only**. Heavy restoration is the process of removing the accumulation of scratches and wear by sanding the stone with the appropriate Pyramid Diamond Abrasive pad. This is the same process utilized in many processing plants to achieve the factory finish.

#### **SEALING MAINTENANCE**

Resealing will vary depending on porosity, density, hardness, foot traffic and the elements (indoor or outdoor) the area is exposed to. As a general rule, medium to dense surfaces exposed to heavy foot traffic can be resealed every 1-3 years. Very hard surfaces exposed to heavy foot traffic can be resealed every 3-5 years. It is important to remember that any additional or future applications of **511 Sealants** will require less sealant than originally used.

#### **SPECIAL NOTE**

Foot traffic will wear the factory finish through abrasion. Acids in fruit juices, coffee, wine, vinegar and many household cleaners will etch the surface removing the factory finish of all limestone, marble, travertine and other calcareous stone even when treated with an Impregnator/Penetrating Sealer.

10\_2008

## TERRA COTTA, SALTILLO, CATALUNA & OTHER CLAY TYPE PAVERS - CARE INSTRUCTIONS

This type of surface looks beautiful and is very durable in the proper applications. Rich and warm with rustic charm, these surfaces offer great aesthetic value. Beautiful and delicate. Due to the porous nature of these surfaces, many items will penetrate the surface causing staining and difficult maintenance. In addition, these surfaces may develop efflorescence and lime “pops”. In the past these challenges have been met with difficulty, exhaustion and great expense for those responsible for maintaining the surfaces. **Miracle Sealants Company** offers the most advanced system for the protection, maintenance and restoration of these surfaces. No longer are we limited to difficult linseed oil staining or labor intensive topical coating procedures. Our products and procedures, combined with three generations of industry knowledge, will aid you in maintaining the timeless beauty of these surfaces.

### NEW INSTALLATIONS

#### SAMPLE TESTING

Due to the differences of each surface, several inconspicuous test patches should be completed with each product to assure maximum performance. **USERS MUST DETERMINE THE SUITABILITY OF THE PRODUCT FOR THEIR INTENDED USE!**

#### SEALING AS A GROUT RELEASE

These types of surfaces are very porous and can absorb stains from many items including the dye in many grouts. To insure the best possible installation, as well as construction site protection, **511 Porous Plus** should be applied as a grout release before grouting the surface following product instructions carefully. **511 Porous Plus** will resist dye absorption, facilitate grout residue removal (up to 45% faster), and offer superior stain resistance. In any situation where no odor can be present, use **511 H2O Plus** for paver and grout protection.

#### DIRECTIONS

Always test a small area to insure desired results. Do not dilute or thin at any time. Shake well.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. **511** may be applied to damp surfaces 1-2 hours after standing water has been removed.
3. Apply an even application of **511** using a clean white towel.
4. Saturate the surface getting the surface “Wet to the Eye” being careful not to allow **511** into the open ungrouted joints.
5. Allow **511** to dwell for 3-5 minutes.
6. Wipe or buff off any excess **511** before it dries on the surface with terry cloth towels.
7. Reactivating the residue with **511 Porous Plus** and immediately buffing dry with terry cloth towels may remove any excess **511** that has dried on the surface creating a residue/film.
8. If the residue has been on the surface for more than a few hours, use **Miracle Sealants’ Residue Remover**. Apply directly to the surface and immediately buff or wipe dry with terry cloth towels.
9. For **511 H2O Plus**, use warm water and a soft scrub pad to remove excess.
10. Allow **511** to cure 12-72 hours before proceeding with the grouting process.
11. Grout the surface per manufacturer’s specifications.
12. Clean all grout residue completely with a clean sponge and water.
13. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

With some difficult surfaces it may be necessary to use **Miracle Sealants’ GCFR, Phosphoric Acid Cleaner, Sulfamic Acid Crystals, Epoxy Grout Film Remover** or **H2O Strip** to completely remove all grout residue.

#### GROUT SEALING

Although grout can be treated with **511 Porous Plus** / **511 H2O Plus** within an hour of grout residue removal, it is suggested to allow grout to cure per manufacturer’s specification so as not to void any manufacturer warranty on the grout. For existing grout it is not necessary to wait.

1. Apply **511 Porous Plus** with a paintbrush to grout joints for water, oil and stain resistance.
2. Allow **511** to dwell 3-5 minutes.
3. Wipe or buff off any excess before it dries on the surface with terry cloth towels.
4. Any excess that has dried on the surface creating a residue/film may be removed by reactivating the residue with **511** and immediately buffing dry with terry cloth towels.
5. For **511 H2O Plus**, use warm water and a soft scrub pad to remove excess.

6. Finished area can be used for normal foot traffic in 3-5 hours.
7. Allow **511** to cure 72 hours before subjecting to water, oil and staining materials.
8. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

#### **SEALING AND THE NATURAL LOOK**

If you are trying to retain the natural look of the clay paver, we recommend stopping at this point and putting the area into service. This type of finish will require the least amount of maintenance and is recommended for high traffic and food areas for maximum stain and slip protection.

#### **SEALING AND COLOR ENHANCEMENT**

For color enhancement we recommend **Miracle Sealants' 511 Seal & Enhance** impregnator and color enhancer. **511 Seal & Enhance** was designed to enhance the natural color and texture of all Terra Cotta, Saltillo & clay surfaces. In addition to beautifying the stone, **511 Seal & Enhance** offers stain resistance to water, oil and stains of **511 Porous Plus** all in one product. Do not dilute or thin at any time. Shake well.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Apply using a clean white towel.
3. Apply enough to the surface so it is "Wet to the Eye"
4. Do not allow **511 Seal & Enhance** to puddle or air dry on the surface.
5. Work in small areas.
6. At least two applications are necessary to achieve desired enhancement, water, oil and stain resistance.
7. Apply second application after the initial application has dried at least one hour.
8. Remove excess before it dries with terry cloth towels.
9. Excess may be removed by reactivating residue with **511 Seal & Enhance** and immediately buffing dry with terry cloth towels.
10. Finished area can be used for normal foot traffic in 3-5 hours.
11. Keep free from water, oil and stains for 72 hours.
12. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

#### **SEALING FOR SHINE ENHANCEMENT**

For a high gloss we recommend using **Mira Shine** after the **511 Porous Plus** has been applied. This product will create a desirable shine to your clay pavers. Follow the instructions previously mentioned for sealing pavers and sealing grout joints.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Apply using a clean white towel, sponge or wax applicator.
3. Apply "Wet to the eye" to the surface.
4. Do not allow **Mira Shine** to puddle on the surface.
5. Work in small areas.
6. At least two applications are necessary to achieve desired enhancement.
7. Apply second application after the initial application has dried (to the touch) at least one hour.
8. Finished area can be used for light foot traffic in 3-5 hours.
9. Keep free from water, oil and stains for 72 hours.
10. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

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## **RESTORATION**

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#### **FLOOR COATING/WAX REMOVAL**

Pavers must be dry and free of contaminants, including previously applied sealers, dirt and grout residue before sealing. To remove existing solvent base coatings and/or waxes use **Mira Strip** fast acting floor stripper following labels instructions carefully. To remove existing water base coatings and/or waxes use **H2O Strip**. All dirty remains must be removed from the surface before cleaning.

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

To remove existing water base coatings and waxes use **Miracle Sealants' H2O Strip** fast acting stripper. To remove existing solvent base coatings, waxes and mastics use **Miracle Sealants' Mira Strip** fast acting stripper.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Apply stripper to the surface undiluted.
3. Allow solution to dwell for 5-20 minutes, agitating periodically with a medium aggressive hand brush for small areas and floor brush and the **Miracle Sealants' Marble Master MM 1000** (150 lbs/175 rpm) floor machine for large areas.
4. Remove all dirty remains with towels or a wet vacuum.
5. Thoroughly rinse surface with clean water.
6. Allow the surface to dry.
7. Multiple applications may be required depending on the amount of wax build up.s
8. **H2O Strip** is alkaline and may affect the surface finish of some stone.
9. Finished area can be used for normal foot traffic in 1-5 hours.
10. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

### **HEAVY DUTY CLEANING**

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

To remove hard water deposits, grout residue, efflorescence, rust and other heavy dirt and grime use **Liquid Pouttice**, **Phosphoric Acid Cleaner** or **GCFR**.

Acid Sensitive Surfaces should be cleaned with **Miracle Sealants' Liquid Pouttice**, a non-acidic deep cleaner designed specifically for acid sensitive stone surfaces. Use of **Liquid Pouttice** will not affect the natural finish of the stone.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **Liquid Pouttice Part A** with one part **Liquid Pouttice Part B** with 2 equal parts warm water.
3. Wet the surface to be cleaned.
4. Apply **Liquid Pouttice** solution using a soft brush, towel or mop.
5. Allow solution to dwell 40 minutes while keeping the surface damp. Do not allow cleaner to dry on the surface.
6. Agitate the surface with a soft brush periodically.
7. Remove excess with towels or wet vacuum.
8. Rinse with clean water.
9. On walls a fine mist may be applied and allowed to dry up to 72 hours.
10. Finished area can be used for normal foot traffic within 1-5 hours.
11. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

For the most aggressive cleaning challenges use **Miracle Sealants' Grout & Concrete Film Remover (GCFR)** a strong hydrochloric acid cleaner.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **GCFR** with ten parts water (10:1). Do not use stronger than (3:1).
3. Wet surface to be cleaned with clean water.
4. Apply **GCFR** solution using a brush, towel or mop.
5. Allow solution to dwell 1-5 minutes while keeping the surface damp.
6. Agitate the surface with a brush.
7. Do not allow solution to dry on the surface.
8. Remove excess with towels or wet vacuum.
9. Rinse with clean water and a mixture of **Mira Clean #1** (10:1) to insure complete neutralization.
10. Finished area can be used for normal foot traffic in 1-5 hours.
11. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

For the little less aggressive cleaning challenge use **Miracle Sealants' Phosphoric Acid Cleaner**.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **Phosphoric Acid Cleaner** with ten parts water (10:1). Do not use stronger than (3:1).
3. Wet surface to be cleaned with clean water.

4. Apply solution using a brush, towel or mop.
5. Allow solution to dwell 1-5 minutes while keeping the surface damp.
6. Agitate the surface with a brush.
7. Do not allow solution to dry on the surface.
8. Remove excess with towels or wet vacuum.
9. Rinse with clean water and a mixture of **Mira Clean #1** (10:1) to insure complete neutralization.
10. Finished area can be used for normal foot traffic in 1-5 hours.
11. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

### **STAIN REMOVAL**

For stain removal troubleshooting use **Poultice Plus** and refer to the **Miracle Sealants'** Stain Removal Guide for further information.

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix **Poultice Plus** using distilled water (if you are not sure what the stain is) into a peanut butter like paste.
3. Apply **Poultice Plus** paste to stain about 1/4" thick and overlap the stain by 1/4".
4. Cover the **Poultice Plus** paste with plastic wrap.
5. Tape the plastic wrap to the surface using non-marking tape to create an "air tight" seal.
6. Allow to dry 24-48 hours or until completely dry to hard clay like paste.
7. Remove plastic wrap from stain.
8. Remove the residual powder/paste away using a wood spoon or spatula.
9. Rinse the area using distilled water.
10. Multiple applications may be necessary to remove stain entirely.
11. Finished area can be used for normal foot traffic in 1-5 hours.
12. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

### **MAINTENANCE**

Daily dry dust mopping will keep dust, grit and sand off the surface. Although this type of surface will not show wear as readily as other surfaces, it is wise to keep it as clean as possible.

#### **LIGHT CLEANING FOR THE NATURAL LOOK**

Daily cleaning should consist of using **Mira Soap**. **Mira Soap** can also be used as an alternative for ongoing maintenance. **Mira Soap** will clean and protect in one step while adding a slight patina to the finish. Apply **Mira Soap** as often as you like, as it will hide imperfections, scratches and not build-up on the stone surface. **Mira Soap** can be used on walls and counters.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **Mira Soap** to ten parts warm water for first 6 months. After 6 months mix one part **Mira Soap** to twenty parts warm water.
3. Apply **Mira Soap** solution using a mop or sponge.
4. Do not rinse.
5. Allow **Mira Soap** solution to dry.
6. Change the water when it becomes dirty or cloudy.
7. Finished area can be used for normal foot traffic in 1-5 hours.
8. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

In kitchen and food preparation areas use **Miracle Sealants' Mira Clean #1**. Can go back to using **Mira Soap** after cleaning with **Mira Clean #1**.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **Mira Clean #1** to ten parts warm water. For more difficult cleaning issues a mixture of one part **Mira Clean #1** to three parts warm water.
3. Apply **Mira Clean #1** solution using a mop or sponge.



4. Allow solution to dwell 10-20 minutes.
5. Agitate periodically with a medium brush.
6. Extract all dirty remains with towels or a wet vacuum.
7. Rinse the surface with clean water to eliminate any streaks or residue.
8. Change the water when it becomes dirty or cloudy.
9. Finished area can be used for normal foot traffic in 1-5 hours.
10. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

#### **LIGHT CLEANING FOR COLOR ENHANCEMENT**

Daily cleaning of pavers impregnated with **511 Seal & Enhance** can consist of using **Mira Clean #1** or **Mira Soap** as directed previously in this guide.

#### **MOLD, MILDEW, BACTERIA SANITATION**

For best results in killing mold, mildew, bacteria and other microorganisms use **Miracle Sealants' Miracle Wipes**. **Miracle Wipes** is an EPA Registered product that eliminate 99.9% of common household bacteria, mold, mildew and other microorganisms. **Miracle Wipes** are especially good for food preparation surfaces, kitchen counters, and shower and bath areas.

Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

Follow directions for use explicitly.

#### **SEALING MAINTENANCE**

Resealing will vary depending on porosity, density, hardness, foot traffic and the elements (indoor or outdoor) the area is exposed to. As a general rule, medium to dense surfaces exposed to heavy foot traffic can be resealed every 1-3 years. Very hard surfaces exposed to heavy foot traffic can be resealed every 3-5 years. It is important to remember that any additional or future applications of **511 Sealants** will require less sealant than originally used.

10\_2008

## POLISHED STONE CARE INSTRUCTIONS

These types of surface finishes look beautiful and can be very durable when protected and maintained properly. Polished stone is normally less porous, however, it is still susceptible to staining. In addition, providing slip resistance and maintaining the polish are priorities with polished stone finishes. In the past these challenges have been met with difficulty, exhaustion and great expense. **Miracle Sealants Company** offers the most advanced system for the protection, maintenance and restoration of these surface materials. **Miracle Sealants'** products and procedures, combined with three generations of industry knowledge, will aid you in maintaining the timeless beauty of these surfaces.

### **POINT OF INTEREST**

Foot traffic will wear away the factory finish through abrasion.

The floor will slowly develop the natural "patina" through normal use.

Acids in fruit juices, coffee, wine, vinegar and many household chemicals will etch, dull and change the surface.

For best bacteria resistance, use **511 Impregnator**.

For best oil repellency, use **511 Porous Plus**.

In any situation where no odor can be present, use **511 H2O Plus** for stone grout protection.

### **NEW INSTALLATIONS**

Follow the recommended installation methods and procedures of the Marble Institute of America, Building Stone Institute and Tile Council of America. Allow new installations of setting materials and grout to cure per manufacturer's specification prior to impregnating.

### **SAMPLE TESTING**

Due to the differences of each surface, several inconspicuous test patches should be completed with each product to assure maximum performance. **USERS MUST DETERMINE THE SUITABILITY OF THE PRODUCT FOR THEIR INTENDED USE!**

### **SEALING AS A GROUT RELEASE**

Although these types of surfaces vary in their porosity, they all can absorb stains from items including the dye in many grouts. To insure the best possible installation, **511 Impregnator** or **511 Porous Plus** should be applied as a grout release before the grouting process. Using a **511 Sealant** will resist dye absorption, facilitate grout residue removal (up to 45% faster), and offer superior stain resistance during the construction process.

### **DIRECTIONS**

Always test a small area to insure desired results. Do not dilute or thin at any time. Shake well.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. **511** may be applied to damp surfaces 1-2 hours after standing water has been removed.
3. Apply an even application of **511** using a clean white towel.
4. Saturate the surface getting the surface "Wet to the Eye" being careful not to allow **511** into the open ungrouted joints.
5. Allow **511** to dwell for 3-5 minutes.
6. Wipe or buff off any excess **511** before it dries on the surface with terry cloth towels.
7. Any excess **511** that has dried on the surface creating a residue/film, may be removed by reactivating the residue with **511 Impregnator** and immediately buffing dry with terry cloth towels.
8. If the residue has been on the surface for more than a few hours, use **Miracle Sealants' Residue Remover**. Apply directly to the surface and immediately buff or wipe dry with terry cloth towels.
9. For **511 H2O Plus**, use warm water and a soft scrub pad to remove excess.
10. Allow **511** to cure 12-72 hours before proceeding with the grouting process.
11. Grout the surface per manufacturer's specifications.
12. Clean all grout residue completely with a clean sponge and water.
13. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

With some difficult surfaces it may be necessary to use **Miracle Sealants' GCFR, Phosphoric Acid Cleaner, Sulfamic Acid Crystals, Epoxy Grout Film Remover** or **H2O Strip** to completely remove all grout residue.

### **GROUT SEALING**

Although grout can be treated with **511 Impregnator** / **511 Porous Plus** / **511 H2O Plus** within an hour of grout residue removal, it is suggested to allow grout to cure per manufacturer's specification so as not to void any manufacturer warranty on the grout. For existing grout it is not necessary to wait.

1. Apply **511 Impregnator/511 Porous Plus** with a paintbrush to grout joints for water, oil and stain resistance.
2. Allow **511** to dwell 3-5 minutes.
3. Wipe or buff off any excess before it dries on the surface with terry cloth towels.
4. Any excess that has dried on the surface creating a residue/film may be removed by reactivating the residue with **511** and immediately buffing dry with terry cloth towels.
5. For **511 H2O Plus**, use warm water and a soft scrub pad to remove excess.
6. Finished area can be used for normal foot traffic in 3-5 hours.
7. Allow **511** to cure 72 hours before subjecting to water, oil and staining materials.
8. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

#### **SEALING AND THE NATURAL LOOK**

If you are trying to retain the natural look of the stone, we recommend stopping at this point and putting the area into service. This type of finish will require the least amount of maintenance and is recommend for high traffic and food areas for maximum stain and slip protection.

#### **SEALING AND COLOR ENHANCEMENT**

For color enhancement we recommend **Miracle Sealants' 511 Seal & Enhance** impregnator and color enhancer. **511 Seal & Enhance** was designed to enhance the natural color and texture of all Terra Cotta, Saltillo & clay surfaces. In addition to beautifying the stone, **511 Seal & Enhance** offers stain resistance to water, oil and stains of **511 Porous Plus** all in one product. Do not dilute or thin at any time. Shake well.

#### **COLOR & GLOSS ENHANCEMENT**

Always test a small area to insure desired results. For color & gloss enhancement on polished marble, limestone, travertine or calcareous stone, we recommend **Marble Conditioner, Mira Polish** and **Mira Dust**.

**Marble Conditioner** is an acid-base recrystallization treatment designed to easily remove light scratches and to maintain the polish of marble, limestone, travertine, terrazzo or calcareous surface.

1. Simply shake the bottle and pour into an industrial trigger spray bottle.
2. Squirt onto the surface and immediately buff with #2, #1, #0, #00 steel wool equipped **Marble Master MM 1000** floor machine until dry. Buff in a consistent side-to-side motion.
3. Work small areas until desired results are achieved.
4. Sweep up any loose steel wool shavings.
5. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

**Mira Dust** is an acrylic acid polishing powder, designed to maintain the polish of marble, limestone, travertine, terrazzo or calcareous surface.

1. Wet the surface with clean water and sprinkle **Mira Dust** onto the surface.
2. Buff using a **Marble Master MM 1000** equipped with a tampico brush, white nylon pad or polishing pad creating a slurry solution on the surface.
3. Buff in side-to-side motion.
4. Do not allow to dry on the surface.
5. Squeegee the slurry to next section as results are achieved.
6. Work small areas.
7. Make sure to rinse areas using **Mira Clean #1** in the rinse water.
8. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

**Mira Polish** is a non-acid polishing cream, designed to for easy use to restore and maintain the polish of marble, limestone, travertine, terrazzo or calcareous surface.

1. Apply a small blob of **Mira Polish** to surface.
2. Lightly wet the surface with clean water.
3. Buff using a **Marble Master MM 1000** equipped with a white nylon buffing pad, tampico brush, or polishing pad.
4. Buff in side-to-side motion.
5. Work **Mira Polish** until it has totally covered desired area.
6. Work small areas.
7. Use a clean pad to buff off excess **Mira Polish**, using just a few squirts of water to loosen up the **Mira Polish** residue that is covering the work area.

8. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

For polished granite floors, use **Granite Brite** and a light natural hair pad.

1. Wet the surface (just slightly) with clean water and sprinkle **Granite Brite** onto the surface.
2. Buff using a **Marble Master MM1000** equipped with a felt pad or red nylon pad.
3. Buff in a side-to-side motion creating a slurry.
4. Buff until completely dry.
5. Work in small sections until desired results are achieved.
6. Work until completely removed from the surface.
7. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

**Stone Polish** can be used as needed for added gloss and ongoing care for furniture, walls and counters (**not for use on floors**).

1. Simply apply **Stone Polish** on to the surface using a clean cloth.
2. Apply in circular motion to insure complete coverage.
3. Allow to dry to a haze (10 - 15 minutes).
4. Buff off using a clean dry cloth or #0, #00, #000 or #0000 steel wool.
5. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

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## RESTORATION

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### **ETCH & WATER RING REMOVAL**

Always test a small area to insure desired results.

1. To remove acid etch & water rings, spray the damaged area with clean, cool water.
2. Sprinkle a pinch of **Water Ring & Etch Remover** onto the damaged surface.
3. Buff in circular motions using a wet white nylon-buffing pad.
4. Continue for a 50 strokes keeping the surface wet during the buffing action.
5. Wipe with a clean, dry towel.
6. Multiple applications may be necessary to achieve desired results.
7. Rinse the surface with 10:1 mixture of **Mira Clean #1** and water.
8. Apply **Stone Polish** after desired gloss has been produced (on areas that will not be walked on, i.e furniture, counters and walls).
9. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

### **HARD WATER DEPOSITS & SOAP SCUM - Heavy Duty Cleaning**

Acid Sensitive Surfaces should be cleaned with **Miracle Sealants' Liquid Poulitice**, a non-acidic deep cleaner designed specifically for acid sensitive stone surfaces. Use of **Liquid Poulitice** will not affect the natural finish of the stone.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **Liquid Poulitice Part A** with one part **Liquid Poulitice Part B** with 2 equal parts warm water.
3. Wet the surface to be cleaned.
4. Apply **Liquid Poulitice** solution using a soft brush, towel or mop.
5. Allow solution to dwell 40 minutes while keeping the surface damp.
6. Agitate the surface with a soft brush periodically.
7. Remove excess with towels or wet vacuum.
8. Rinse with clean water.
9. On walls a fine mist may be applied and allowed to dry up to 72 hours.
10. Finished area can be used for normal foot traffic within 1-5 hours.
11. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

For hard water deposits and soap scum that may begin to develop in shower and bath surfaces use **Miracle Sealants' Porcelain & Ceramic Tile Cleaner**. Easy to use, and very effective **Porcelain & Ceramic Tile Cleaner** contains mild abrasives in a mild ammonia cleaner. **FOR ALL MARBLE, LIMESTONE, TRAVERTINE AND OTHER CALCAREOUS SURFACES TEST TO MAKE SURE PRODUCT DOESN'T ADVERSELY AFFECT THE POLISH.**

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Simply flip the top and squeeze some onto a soft, white scrub pad.
3. Scrub in circular motions.
4. Rinse with water and damp wipe the dirt away.
5. For large area, **Porcelain & Ceramic Tile Cleaner** can be applied directly to the honed surface and buffed using a **Marble Master MM 1000** floor machine.
6. Finished area can be used for normal foot traffic in 1-5 hours.
7. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

**Granite Non-Acid Sensitive:**

With granite and other non-acid sensitive surfaces use **Porcelain & Ceramic Tile Cleaner** as directed or use **Phosphoric Acid Cleaner** or **GCFR**.

For the most aggressive cleaning challenges use **Miracle Sealants' Grout & Concrete Film Remover (GCFR)** a strong hydrochloric acid cleaner (not for use on polished calcareous surfaces).

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **GCFR** with ten parts water (10:1). Do not use stronger than (3:1).
3. Wet surface to be cleaned with clean water.
4. Apply **GCFR** solution using a brush, towel or mop.
5. Allow solution to dwell 1-5 minutes while keeping the surface damp.
6. Agitate the surface with a brush.
7. Do not allow solution to dry on the surface.
8. Remove excess with towels or wet vacuum.
9. Rinse with clean water and a mixture of **Mira Clean #1** (10:1) to insure complete neutralization.
10. Finished area can be used for normal foot traffic in 1-5 hours.
11. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

For the little less aggressive cleaning challenge use **Miracle Sealants' Phosphoric Acid Cleaner**.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **Phosphoric Acid Cleaner** with ten parts water (10:1). Do not use stronger than (3:1).
3. Wet surface to be cleaned with clean water.
4. Apply solution using a brush, towel or mop.
5. Allow solution to dwell 1-5 minutes while keeping the surface damp.
6. Agitate the surface with a brush.
7. Do not allow solution to dry on the surface.
8. Remove excess with towels or wet vacuum.
9. Rinse with clean water and a mixture of **Mira Clean #1** (10:1) to insure complete neutralization.
10. Finished area can be used for normal foot traffic in 1-5 hours.
11. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

**FLOOR COATING/WAX REMOVAL**

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

To remove existing water base coatings and waxes use **Miracle Sealants' H2O Strip** fast acting stripper. To remove existing solvent base coatings, waxes and mastics use **Miracle Sealants' Mira Strip** fast acting stripper.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Apply stripper to the surface undiluted.
3. Allow solution to dwell for 5-20 minutes, agitating periodically with a medium aggressive hand brush for small areas and floor brush and the **Miracle Sealants' Marble Master MM 1000** (150 lbs/175 rpm) floor machine for large areas.
4. Remove all dirty remains with towels or a wet vacuum.

5. Thoroughly rinse surface with clean water.
6. Allow the surface to dry.
7. Multiple applications may be required depending on wax build up.
8. **H2O Strip** is alkaline and may affect the surface finish of some stone.
9. Finished area can be used for normal foot traffic in 1-5 hours.
10. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

### **HEAVY DUTY CLEANING**

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

To remove hard water deposits, grout residue, efflorescence, rust and other heavy dirt and grime use **Liquid Poulitice**. Typically, an acidic cleaner is needed to remove cementitious grout residues, but using an acidic cleaner on these types of materials will remove/etch the polish away. Acid sensitive surfaces should be cleaned with **Miracle Sealants' Liquid Poulitice**, a non-acidic deep cleaner designed specifically for acid sensitive stone surfaces. Use of **Liquid Poulitice** will not affect the natural finish of the stone.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **Liquid Poulitice Part A** with one part **Liquid Poulitice Part B** with 2 equal parts warm water.
3. Wet the surface to be cleaned.
4. Apply **Liquid Poulitice** solution using a soft brush, towel or mop.
5. Allow solution to dwell 40 minutes while keeping the surface damp.
6. Agitate the surface with a soft brush periodically.
7. Remove excess with towels or wet vacuum.
8. Rinse with clean water.
9. On walls a fine mist may be applied and allowed to dry up to 72 hours.
10. Finished area can be used for normal foot traffic within 1-5 hours.
11. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

For hard water deposits and soap scum that may begin to develop in shower and bath surfaces use **Miracle Sealants' Porcelain & Ceramic Tile Cleaner**. Easy to use, and very effective **Porcelain & Ceramic Tile Cleaner** contains mild abrasives in a mild ammonia cleaner. Be sure to conduct your test areas as this is an abrasive cleaner that may remove the polish from some polished stone.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Simply flip the top and squeeze some onto a soft, white scrub pad.
3. Scrub in circular motions.
4. Rinse with water and damp wipe the dirt away.
5. For large area, **Porcelain & Ceramic Tile Cleaner** can be applied directly to the honed surface and buffed using a **Marble Master MM 1000** floor machine.
6. Finished area can be used for normal foot traffic in 1-5 hours.
7. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

For the most aggressive cleaning challenges use **Miracle Sealants' Grout & Concrete Film Remover (GCFR)** a strong hydrochloric acid cleaner. Remember acids can remove polish from calcareous stones, so if this product is used re-polishing of the stone may be necessary.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **GCFR** with ten parts water (10:1). Do not use stronger than (3:1).
3. Wet surface to be cleaned with clean water.
4. Apply **GCFR** solution using a brush, towel or mop.
5. Allow solution to dwell 1-5 minutes while keeping the surface damp.
6. Agitate the surface with a brush.
7. Do not allow solution to dry on the surface.

8. Remove excess with towels or wet vacuum.
9. Rinse with clean water and a mixture of **Mira Clean #1** (10:1) to insure complete neutralization.
10. Finished area can be used for normal foot traffic in 1-5 hours.
11. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

For a little less aggressive cleaning challenge use **Miracle Sealants' Phosphoric Acid Cleaner**. Follow the same cautions recommended when using this product as the **GCFR**.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **Phosphoric Acid Cleaner** with ten parts water (10:1). Do not use stronger than (3:1).
3. Wet surface to be cleaned with clean water.
4. Apply solution using a brush, towel or mop.
5. Allow solution to dwell 1-5 minutes while keeping the surface damp.
6. Agitate the surface with a brush.
7. Do not allow solution to dry on the surface.
8. Remove excess with towels or wet vacuum.
9. Rinse with clean water and a mixture of **Mira Clean #1** (10:1) to insure complete neutralization.
10. Finished area can be used for normal foot traffic in 1-5 hours.
11. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

### **STAIN REMOVAL**

For stain removal troubleshooting use **Poultice Plus** and refer to the **Miracle Sealants' Stain Removal Guide** for further information.

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix **Poultice Plus** using distilled water (if you are not sure what the stain is) into a peanut butter like paste.
3. Apply **Poultice Plus** paste to stain about 1/4" thick and overlap the stain by 1/4".
4. Cover the **Poultice Plus** paste with plastic wrap.
5. Tape the plastic wrap to the surface using non-marking tape to create an "air tight" seal.
6. Allow to dry 24-48 hours or until completely dry to hard clay like paste.
7. Remove plastic wrap from stain.
8. Remove the residual powder/paste away using a wood spoon or spatula.
9. Rinse the area using distilled water.
10. Multiple applications may be necessary to remove stain entirely.
11. Finished area can be used for normal foot traffic in 1-5 hours.
12. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

### **RESURFACING/REFINISHING**

To restore the high gloss luster scrub/buff using **Miracle Sealants' Mira Hone** (non-acid powder) as directed. This product will remove light scratches and imperfections. Then polish using either **Marble Conditioner**, **Mira Polish** or **Mira Dust** as directed previously.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Wet the stone surface with clean water.
3. Sprinkle **Mira Hone** onto the surface.
4. Buff using a **Miracle Sealants' Marble Master MM 1000** (150 lbs/175 rpm) floor machine equipped with a natural fiber brush, white nylon pad or polishing pad.
5. Buff in a consistent side-to-side movement.
6. Create a slurry solution on the surface and keep moist.
7. Do not allow slurry to dry on the surface.

8. Squeegee the slurry to next section as results are achieved.
9. Work small areas until desired results are achieved.
10. Remove slurry using a wet vacuum.
11. Make sure to rinse areas using **Mira Clean #1** (10:1) in the rinse water.
12. Finished area can be used for normal foot traffic in 1-5 hours.
13. Re-treat surface with **511** as directed.
14. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

**Mira Polish** is a non-acidic polishing cream, designed to restore and maintain the polish of marble, limestone, travertine, terrazzo, some granites or calcareous stones.

1. Apply a blob of **Mira Polish** to surface.
2. Lightly wet the surface with clean water.
3. Buff using a **Marble Master MM 1000** equipped with a white nylon buffing pad, tampico brush, or polishing pad.
4. Buff in side to side motion.
5. Work **Mira Polish** until it has totally covered the work surface.
6. Work small areas.
7. Use a clean pad to buff off **Mira Polish** from work area. A few squirts of water may be applied to loosen up the **Mira Polish** from work area.
8. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

For heavy scratches, damage and imperfections, **Miracle Sealants' Pyramid Diamond Abrasives** should be used with a **Marble Master MM 1000** or **MM 2500** floor machine, by a **stone care professional only!** Heavy restoration is the process of removing the accumulation of scratches and wear by sanding the stone with the appropriate **Pyramid Diamond Abrasive** pads. This is the same process utilized in many processing plants to achieve the factory finish.

#### **SPECIAL NOTE**

Foot traffic will wear the factory finish through abrasion. Acids in fruit juices, coffee, wine, vinegar and many household cleaners will etch the surface removing the factory finish of all limestone, marble, travertine and other calcareous stone even when treated with an Impregnator/Penetrating Sealer.

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## **MAINTENANCE**

It is wise to keep these surfaces as clean and dust free as possible. Daily sweeping and the use of a dust mop will help retain the natural finish.

#### **LIGHT CLEANING FOR THE NATURAL LOOK**

Daily cleaning should consist of using **Mira Clean #1** as previously directed.

#### **LIGHT CLEANING FOR GLOSS ENHANCEMENT**

Daily cleaning of stone impregnated with **511 Seal & Enhance** can consist of using **Mira Clean #1** or **Liquid Poultice** as directed previously in this guide.

#### **MOLD, MILDEW, BACTERIA SANITATION**

For best results in killing mold, mildew, bacteria and other microorganisms use **Miracle Sealants' Miracle Wipes**. **Miracle Wipes** is an EPA Registered product that eliminates 99.9% of common household bacteria, mold, mildew and other microorganisms. **Miracle Wipes** are especially good for food preparation surfaces, kitchen counters, and shower and bath areas.

Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

Follow directions for use explicitly.

#### **COUNTER CLEANING**

For counters, using **Miracle Sealants' Counter Kleen** or **Counter Kleen Wipes**, as often as you want, will keep it clean without streaking. **Counter Kleen** is a non-toxic cleaner that is easily sprayed onto the surface and wiped off.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Ready to use. Spray directly onto counter
3. Wipe dry using a clean dry towel
4. No rinsing necessary.
5. Finished area can be used immediately.
6. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

#### **SEALING MAINTENANCE**

Resealing will vary depending on porosity, density, hardness, foot traffic and the elements (indoor or outdoor) the area is exposed to. As a general rule, medium to dense surfaces exposed to heavy foot traffic can be resealed every 1-3 years. Very hard surfaces exposed to heavy foot traffic can be resealed every 3-5 years. It is important to remember that any additional or future applications of **511 Sealants** will require less sealant than originally used.



## POLISHED COUNTER CARE INSTRUCTIONS

These types of surface finishes look beautiful and can be very durable when protected and maintained properly. Polished counters are normally less porous than other surfaces. However, they are susceptible to staining. In addition, maintaining the cleanliness and polish are priorities. **Miracle Sealants Company** offers the most advanced system for the protection, maintenance and restoration of counters. **Miracle Sealants'** products and procedures, combined with three generations of industry knowledge will aid you in maintaining the timeless beauty of your counter.

### POINTS OF INTEREST

Granite: Although normally a very hard surface, granite does require sealing with an impregnator. Normally granite will not be susceptible to acid etching although some maybe affected.

Marble: Marble requires sealing with an impregnator. Using a chopping block when using knives will prevent scratching of the marble surface. Marble is sensitive to acid etching from juices, alcohol, household cleaners, etc.

For best bacteria repellency, use **511 Impregnator**.

For best oil repellency, use **511 Porous Plus**.

In any situation where no odor can be present, use **511 H2O Plus** for tile and grout protection.

## NEW INSTALLATIONS

### SAMPLE TESTING

Due to the differences of each surface, several inconspicuous test patches should be completed with each product to assure maximum performance. **USERS MUST DETERMINE THE SUITABILITY OF THE PRODUCT FOR THEIR INTENDED USE!** Read the label and product data sheet directions for all products completely before starting.

### SEALING AS A GROUT RELEASE

To insure the best possible installation and bacteria repellency, **511 Impregnator** should be applied as a grout release before the grouting process. **511 Impregnator** will resist dye absorption, facilitate grout residue removal (up to 45% faster), and offer superior stain resistance during the construction process. In some situations surfaces will require **511 Porous Plus** for best oil repellency. **511 Sealants** are found to be chemically acceptable on surfaces where there is a possibility of food contact by the U.S.D.A.

### DIRECTIONS

Always test a small area to insure desired results. Do not dilute or thin at any time. Shake well.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. **511** may be applied to damp surfaces 1-2 hours after standing water has been removed.
3. Apply an even application of **511** using a clean white towel.
4. Saturate the surface getting the surface "Wet to the Eye" being careful not to allow **511** into the open ungrouted joints. If applying to a slab counter, open grout joints may not pertain.
5. Allow **511** to dwell for 3-5 minutes.
6. Wipe or buff off any excess **511** before it dries on the surface with terry cloth towels.
7. Any excess **511** that has dried on the surface creating a residue/film, may be removed by reactivating the residue with **511 Impregnator** and immediately buffing dry with terry cloth towels.
8. If the residue has been on the surface for more than a few hours, use **Miracle Sealants' Residue Remover**. Apply directly to the surface and immediately buff or wipe dry with terry cloth towels.
9. For **511 H2O Plus**, use warm water and a soft scrub pad to remove excess.
10. Allow **511** to cure 12-72 hours before proceeding with the grouting process.
11. Grout the surface per manufacturer's specifications.
12. Clean all grout residue completely with a clean sponge and water.
13. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

With some difficult surfaces it may be necessary to use **Miracle Sealants' GCFR, Phosphoric Acid Cleaner, Sulfamic Acid Crystals, Epoxy Grout Film Remover** or **H2O Strip** to completely remove all grout residue.

### GROUT SEALING

Although grout can be treated with **511 Impregnator / 511 Porous Plus / 511 H2O Plus** within an hour of grout residue removal, it is suggested to allow grout to cure per manufacturer's specification so as not to void any manufacturer warranty on the grout. For existing grout it is not necessary to wait.

1. Apply **511 Impregnator/511 Porous Plus** with a paint brush to grout joints for water, oil and stain resistance.
2. Allow **511** to dwell 3-5 minutes.
3. Wipe or buff off any excess before it dries on the surface with terry cloth towels.
4. Any excess that has dried on the surface creating a residue/film, may be removed by reactivating the residue with **511** and immediately buffing dry with terry cloth towels.
5. For **511 H2O Plus**, use warm water and a soft scrub pad to remove excess.
6. Finished area can be used for normal foot traffic in 3-5 hours.
7. Allow **511** to cure 72 hours before subjecting to water, oil and staining materials.
8. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

#### **SEALING AND THE NATURAL LOOK**

If you are trying to retain the natural look of the stone, we recommend stopping at this point and putting the area into service. This type of finish will require the least amount of maintenance and is recommend for high traffic and food areas for maximum stain and slip protection.

#### **COLOR & GLOSS ENHANCEMENT**

Always test a small area to insure desired results. For color & gloss enhancement on polished marble, limestone, travertine or calcareous stone, we recommend **Marble Conditioner, Mira Polish, Stone Polish** and **Mira Dust**.

**Marble Conditioner** is an acid-base recrystallization treatment designed to easily remove light scratches and to maintain the polish of marble, limestone, travertine, terrazzo or calcareous surface.

1. Simply shake the bottle and pour into an industrial trigger spray bottle.
2. Squirt onto the surface and immediately buff with #2, #1, #0, #00 steel wool equipped hand held buffing machine (800 rpm) until dry. Buff in a consistent side to side motion.
3. Work small areas until desired results are achieved.
4. Sweep up any loose steel wool shavings.
5. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

**Mira Dust** is an acrylic acid polishing powder, designed to maintain the polish of marble, limestone, travertine, terrazzo or calcareous surface.

1. Wet the surface with clean water and sprinkle **Mira Dust** onto the surface.
2. Buff using a hand held buffing machine equipped with a tampico brush, white nylon pad or polishing pad creating a slurry solution on the surface. Some areas may be able to be done without the use of a machine.
3. Buff in side to side/circular motion.
4. Do not allow to dry on the surface.
5. Squeegee slurry to next section once desired results are achieved.
6. Work small areas.
7. Make sure to rinse areas using **Mira Clean #1** in the rinse water.
8. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

**Mira Polish** is a non-acid polishing cream, designed to for easy use to restore and maintain the polish of marble, limestone, travertine, terrazzo or calcareous surface.

1. Apply a small blob of **Mira Polish** to surface.
2. Lightly wet the surface with clean water.
3. Buff using a hand held buffing machine equipped with a white nylon buffing pad, tampico brush, or polishing pad.
4. Buff in side to side motion.
5. Work **Mira Polish** until it has totally covered the work area.
6. Work small areas.
7. Use a clean pad to buff off excess **Mira Polish**, using a few squirts of water to loosen up **Mira Polish** on work area.
8. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

**Stone Polish** can be used as needed for added gloss and ongoing care for furniture, walls and counters (not for use on floors).

1. Simply apply **Stone Polish** on to the surface using a clean cloth.

2. Apply in circular motion to insure complete coverage.
3. Allow to dry to a haze (10 - 15 minutes).
4. Buff off using a clean dry cloth or #0, #00, #000 or #0000 steel wool.
5. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

## RESTORATION

### ETCH & WATER RING REMOVAL

Always test a small area to insure desired results.

1. To remove acid etch & water rings, spray the damaged area with clean, cool water.
2. Sprinkle a pinch of **Water Ring & Etch Remover** onto the damaged surface.
3. Buff in circular motions using a wet white nylon buffing pad.
4. Continue for a 50 strokes keeping the surface wet during the buffing action.
5. Wipe with a clean, dry towel.
6. Multiple applications may be necessary to achieve desired results.
7. Rinse the surface with 10:1 mixture of **Mira Clean #1** and water.
8. Apply **Stone Polish** after desired gloss has been produced.
9. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

### HEAVY DUTY CLEANING & HARD WATER DEPOSITS & SOAP SCUM

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

To remove hard water deposits, grout residue, efflorescence, rust and other heavy dirt and grime use **Liquid Poulitice, Phosphoric Acid Cleaner, GCFR or Porcelain & Ceramic Tile Cleaner**. When using these products it is essential to conduct a few, small test areas. Some of the aforementioned cleaners are acidic or abrasive and will remove the polish on soft or calcareous stones.

Acid Sensitive Surfaces should be cleaned with **Miracle Sealants' Liquid Poulitice**, a non-acidic deep cleaner designed specifically for acid sensitive stone surfaces. Use of **Liquid Poulitice** will not affect the natural finish of the stone.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **Liquid Poulitice Part A** with one part **Liquid Poulitice Part B** with 2 equal parts warm water.
3. Wet the surface to be cleaned.
4. Apply **Liquid Poulitice** solution using a soft brush, towel or mop.
6. Allow solution to dwell 40 minutes while keeping the surface damp.
7. Agitate the surface with a soft brush periodically. Do not allow cleaner to dry on the surface.
8. Remove excess with towels or wet vacuum.
9. Rinse with clean water.
10. On walls a fine mist may be applied and allowed to dry up to 72 hours.
11. Finished area can be used for normal foot traffic within 1-5 hours.
12. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

For hard water deposits and soap scum that may begin to develop in shower and bath surfaces use **Miracle Sealants' Porcelain & Ceramic Tile Cleaner**. Easy to use, and very effective **Porcelain & Ceramic Tile Cleaner** contains mild abrasives in a mild ammonia cleaner. **For all marble, limestone, travertine and other calcareous surfaces, test to make sure product does not adversely affect polish.**

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Simply flip the top and squeeze some onto a soft, white scrub pad.
3. Scrub in circular motions.
4. Rinse with water and damp wipe the dirt away.
5. For large area, **Porcelain & Ceramic Tile Cleaner** can be applied directly to the surface and buffed using a **Marble Master MM 1000** floor machine.
6. Finished area can be used for normal foot traffic in 1-5 hours.
7. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

For the most aggressive cleaning challenges use **Miracle Sealants' Grout & Concrete Film Remover (GCFR)** a strong hydrochloric acid cleaner. Remember acidic based cleaners (which the following two products are) will remove the polish from calcareous stones. Sampling these products on spare pieces of your particular material prior to use is highly recommended.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **GCFR** with ten parts water (10:1). Do not use stronger than (3:1).
3. Wet surface to be cleaned with clean water.
4. Apply **GCFR** solution using a brush, towel or mop.
5. Allow solution to dwell 1-5 minutes while keeping the surface damp.
6. Agitate the surface with a brush.
7. Do not allow solution to dry on the surface.
8. Remove excess with towels or wet vacuum.
9. Rinse with clean water and a mixture of **Mira Clean #1** (10:1) to insure complete neutralization.
10. Finished area can be used for normal foot traffic in 1-5 hours.
11. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

For the little less aggressive cleaning challenge use **Miracle Sealants' Phosphoric Acid Cleaner**.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **Phosphoric Acid Cleaner** with ten parts water (10:1). Do not use stronger than (3:1).
3. Wet surface to be cleaned with clean water.
4. Apply solution using a brush, towel or mop.
5. Allow solution to dwell 1-5 minutes while keeping the surface damp.
6. Agitate the surface with a brush.
7. Do not allow solution to dry on the surface.
8. Remove excess with towels or wet vacuum.
9. Rinse with clean water and a mixture of **Mira Clean #1** (10:1) to insure complete neutralization.
10. Finished area can be used for normal foot traffic in 1-5 hours.
11. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

### **STAIN REMOVAL**

For stain removal troubleshooting use **Poultice Plus** and refer to the **Miracle Sealants' Stain Removal Guide** for further information.

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix **Poultice Plus** using distilled water (if you are not sure what the stain is) into a peanut butter like paste.
3. Apply **Poultice Plus** paste to stain about 1/4" thick and overlap the stain by 1/4".
4. Cover the **Poultice Plus** paste with plastic wrap.
5. Tape the plastic wrap to the surface using non-marking tape to create an "air tight" seal.
6. Allow to dry 24-48 hours or until completely dry to hard clay like paste.
7. Remove plastic wrap from stain.
8. Remove the residual powder/paste away using a wood spoon or spatula.
9. Rinse the area using distilled water.
10. Multiple applications may be necessary to remove stain entirely.
11. Finished area can be used for normal foot traffic in 1-5 hours.
12. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

**RESURFACING/REFINISHING**

To restore the high gloss luster scrub/buff using **Miracle Sealants' Mira Hone** (non-acid powder) as directed. This product will remove light scratches and imperfections. Then polish using either **Marble Conditioner**, **Mira Polish** or **Mira Dust** as directed previously.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Wet the stone surface with clean water.
3. Sprinkle **Mira Hone** onto the surface.
4. Buff using a hand held buffing machine (800 rpm) with a natural fiber brush, white nylon pad or polishing pad.
5. Buff in a consistent side-to-side movement.
6. Create a slurry solution on the surface and keep moist.
7. Do not allow slurry to dry on the surface.
8. Squeegee slurry to next section as results are achieved.
9. Work small areas until desire results are achieved.
10. Remove slurry using a wet vacuum.
11. Make sure to rinse areas using **Mira Clean #1** (10:1) in the rinse water.
12. Finished area can be used for normal foot traffic in 1-5 hours.
13. Re-treat surface with **511** as directed.
14. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

**Mira Polish** is a non-acid polishing cream, designed to for easy use to restore and maintain the polish of marble, limestone, travertine, terrazzo or calcareous surface.

1. Apply a blob of **Mira Polish** to surface.
2. Lightly wet the surface with clean water.
3. Buff using a hand held buffing machine (800 rpm) equipped with a white nylon buffing pad, tampico brush, or polishing pad.
4. Buff in side to side motion.
5. Work **Mira Polish** until it has totally covered the desired work area.
6. Work small areas.
7. Use a clean pad to buff off **Mira Polish**, using a few squirts of water to loosen up **Mira Polish** from the work area.
8. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

For heavy scratches, damage and imperfections, **Miracle Sealants' Pyramid Diamond Abrasives** should be used with a hand held buffing/polishing machine by a stone care professional only. Heavy restoration is the process of removing the accumulation of scratches and wear by sanding the stone with the appropriate **Pyramid Diamond Abrasive** pads. This is the same process utilized in many processing plants to achieve the factory finish.

**SPECIAL NOTE**

Normal wear and tear will wear the factory finish through abrasion. Acids in fruit juices, coffee, wine, vinegar and many household cleaners will etch the surface removing the factory finish of all limestone, marble, travertine and other calcareous stone even when treated with an Impregnator/Penetrating Sealer. Heavy restoration is the processes of removing the accumulation of scratches, etch marks and dull spots by sanding the stone with the appropriate abrasive pad. This is the same process utilized in many processing plants to achieve the factory finish. This process should be completed by a **stone care professional only!**

**MAINTENANCE**

It is wise to keep these surfaces as clean and dust free as possible.

**LIGHT CLEANING FOR THE NATURAL LOOK**

Daily cleaning should consist of using **Mira Clean #1**, **Counter Kleen** or **Counter Kleen Wipes**, as previously directed.

**LIGHT CLEANING FOR GLOSS ENHANCEMENT**

Daily cleaning and gloss enhancement of stone can consist of using **Stone Polish**, **Counter Kleen**, **Counter Kleen Wipes** and **Miracle Wipes** as directed previously in this guide.

**MOLD, MILDEW, BACTERIA SANITATION**

For best results in killing mold, mildew, bacteria and other microorganisms use **Miracle Sealants' Miracle Wipes**. **Miracle Wipes** is an EPA Registered product that eliminate 99.9% of common household bacteria, mold, mildew and other microorganisms. **Miracle Wipes** are especially good for food preparation surfaces, kitchen counters, and shower and bath areas.

Refer to the Product Data Sheet & Label for complete instructions.

Follow directions for use explicitly.

**COUNTER CLEANING**

For counters use **Miracle Sealants' Counter Kleen** or **Counter Kleen Wipes**, as often as you want, will keep it clean without streaking. **Counter Kleen** is a non-toxic cleaner that is easily sprayed onto the surface and wipe off.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Ready to use. Spray directly onto counter
3. Wipe dry using a clean dry towel.
4. No rinsing necessary.
5. Finished area can be used immediately.
6. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

**SEALING MAINTENANCE**

Resealing will vary depending on porosity, density, hardness, foot traffic and the elements (indoor or outdoor) the area is exposed to. As a general rule, medium to dense surfaces exposed to heavy foot traffic can be resealed every 1-3 years. Very hard surfaces exposed to heavy foot traffic can be resealed every 3-5 years. It is important to remember that any additional or future applications of **511 Sealants** will require less sealant than originally used.

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## POLISHED GRANITE COUNTER CARE INSTRUCTIONS

These types of surface finishes look beautiful and can be very durable when protected and maintained properly. Polished granite is normally less porous than other surfaces. However, they are susceptible to staining. In addition, maintaining the cleanliness and polish are priorities. **Miracle Sealants Company** offers the most advanced system for the protection, maintenance and restoration of granite counters. **Miracle Sealants'** products and procedures, combined with three generations of industry knowledge will aid you in maintaining the timeless beauty of your granite counter.

### POINTS OF INTEREST

Granite: Although normally a very hard surface, granite does require sealing with an impregnator. Normally granite will not be susceptible to acid etching.

For best bacteria repellency, use **511 Impregnator**.

For best oil repellency, use **511 Porous Plus**.

In any situation where no odor can be present, use **511 H2O Plus** for tile and grout protection.

## NEW INSTALLATIONS

### SAMPLE TESTING

Due to the differences of each surface, several inconspicuous test patches should be completed with each product to assure maximum performance. **USERS MUST DETERMINE THE SUITABILITY OF THE PRODUCT FOR THEIR INTENDED USE!** Read the label and product data sheet directions for all products completely before starting.

### SEALING YOUR COUNTER

To insure the best possible installation and bacteria repellency, **511 Impregnator** should be applied as a grout release before the grouting process. **511 Impregnator** will resist dye absorption, facilitate grout residue removal (up to 45% faster), and offer superior stain resistance during the installation process. In some situations surfaces will require **511 Porous Plus** for best oil repellency. In any situation where no odor can be present, use **511 H2O Plus** for tile and grout protection. **511 Sealants** are found to be chemically acceptable on surfaces where there is a possibility of incidental food contact by the U.S.D.A.

### DIRECTIONS

Always test a small area to insure desired results. Do not dilute or thin at any time. Shake well.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. **511** may be applied to damp surfaces 1-2 hours after standing water has been removed.
3. Apply an even application of **511** using a clean white towel.
4. Saturate the surface getting the surface "Wet to the Eye" being careful not to allow **511** into the open ungrouted joints.
5. Allow **511** to dwell for 3-5 minutes.
6. Wipe or buff off any excess **511** before it dries on the surface with terry cloth towels.
7. Any excess **511** that has dried on the surface creating a residue/film, may be removed by reactivating the residue with **511 Impregnator** and immediately buffing dry with terry cloth towels.
8. If the residue has been on the surface for more than a few hours, use **Miracle Sealants' Residue Remover**. Apply directly to the surface and immediately buff or wipe dry with terry cloth towels.
9. For **511 H2O Plus**, use warm water and a soft scrub pad to remove excess.
10. Allow **511** to cure 12-72 hours before proceeding with the grouting process.
11. Grout the surface per manufacturer's specifications.
12. Clean all grout residue completely with a clean sponge and water.
13. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

With some difficult surfaces it may be necessary to use **Miracle Sealants' GCFR, Phosphoric Acid Cleaner, Sulfamic Acid Crystals, Epoxy Grout Film Remover** or **H2O Strip** to completely remove all grout residue.

### GLOSS ENHANCEMENT

For gloss enhancement on counters, use **Stone Polish** as directed. Spray **Stone Polish** on the surface and spread with a dry, clean white towel. Allow the **Stone Polish** to dry a haze. Remove the haze by buffing with a dry, clean white towel or **#1, #0, #00, #000**. This may be done by hand or with the appropriate machine. **Stone Polish** will not build up and can be used as often as necessary.

1. Simply apply **Stone Polish** on to the surface using a clean cloth.
2. Apply in circular motion to insure complete coverage.

3. Allow to dry to a haze (10 - 15 minutes).
4. Buff off using a clean dry cloth or steel wool.
5. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

## RESTORATION

### STAIN REMOVAL

For stain removal troubleshooting use **Poultice Plus** and refer to the **Miracle Sealants'** Stain Removal Guide for further information.

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix **Poultice Plus** using distilled water (if you are not sure what the stain is) into a peanut butter like paste.
3. Apply **Poultice Plus** paste to stain about 1/4" thick and overlap stain by 1/4".
4. Cover the **Poultice Plus** paste with plastic wrap.
5. Tape the plastic wrap to the surface using non-marking tape to create an "air tight" seal.
6. Allow to dry 24-48 hours or until completely dry to hard clay like paste.
7. Remove plastic wrap from stain.
8. Remove the residual powder/paste away using a wood spoon or spatula.
9. Rinse the area using distilled water.
10. Multiple applications may be necessary to remove stain entirely.
11. Finished area can be used for normal foot traffic in 1-5 hours.
12. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

### HEAVY DUTY CLEANING & HARD WATER DEPOSITS & SOAP SCUM

Always test a small area to insure desired results.

Protect neighboring and adjacent surfaces of wood, carpet, metal, landscaping and other surfaces.

To remove hard water deposits, grout residue, efflorescence, rust and other heavy dirt and grime use **Liquid Poultice, Phosphoric Acid Cleaner, GCFR or Porcelain & Ceramic Tile Cleaner**.

Acid Sensitive Surfaces should be cleaned with **Miracle Sealants' Liquid Poultice**, a non-acidic deep cleaner designed specifically for acid sensitive stone surfaces. Use of **Liquid Poultice** will not affect the natural finish of the stone.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **Liquid Poultice Part A** with one part **Liquid Poultice Part B** with 2 equal parts warm water.
3. Wet the surface to be cleaned.
4. Apply **Liquid Poultice** solution using a soft brush, towel or mop.
5. Allow solution to dwell 40 minutes while keeping the surface damp.
6. Agitate the surface with a soft brush periodically.
7. Remove excess with towels or wet vacuum.
8. Rinse with clean water.
9. On walls a fine mist may be applied and allowed to dry up to 72 hours.
10. Finished area can be used for normal foot traffic within 1-5 hours.
11. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

For hard water deposits and soap scum that may begin to develop in shower and bath surfaces use **Miracle Sealants' Porcelain & Ceramic Tile Cleaner**. Easy to use, and very effective **Porcelain & Ceramic Tile Cleaner** contains mild abrasives in a mild ammonia cleaner.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Simply flip the top and squeeze some onto a soft, white scrub pad.
3. Scrub in circular motions.
4. Rinse with water and damp wipe the dirt away.



5. For large area, **Porcelain & Ceramic Tile Cleaner** can be applied directly to the honed surface and buffed using a **Marble Master MM 1000** floor machine.
6. Finished area can be used for normal foot traffic in 1-5 hours.
7. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

For the most aggressive cleaning challenges use **Miracle Sealants' Grout & Concrete Film Remover (GCFR)** a strong hydrochloric acid cleaner. This product being acidic may effect the finish on some granites, even though most granites are not sensitive to acids.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **GCFR** with ten parts water (10:1). Do not use stronger than (3:1).
3. Wet surface to be cleaned with clean water.
4. Apply **GCFR** solution using a brush, towel or mop.
5. Allow solution to dwell 1-5 minutes while keeping the surface damp.
6. Agitate the surface with a brush.
7. Do not allow solution to dry on the surface.
8. Remove excess with towels or wet vacuum.
9. Rinse with clean water and a mixture of **Mira Clean #1** (10:1) to insure complete neutralization.
10. Finished area can be used for normal foot traffic in 1-5 hours.
11. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

For the little less aggressive cleaning challenge use **Miracle Sealants' Phosphoric Acid Cleaner**.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Mix one part **Phosphoric Acid Cleaner** with ten parts water (10:1). Do not use stronger than (3:1).
3. Wet surface to be cleaned with clean water.
4. Apply solution using a brush, towel or mop.
5. Allow solution to dwell 1-5 minutes while keeping the surface damp.
6. Agitate the surface with a brush.
7. Do not allow solution to dry on the surface.
8. Remove excess with towels or wet vacuum.
9. Rinse with clean water and a mixture of **Mira Clean #1** (10:1) to insure complete neutralization.
10. Finished area can be used for normal foot traffic in 1-5 hours.
11. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

### **RESURFACING/REFINISHING**

To refinish granite we recommend contacting **a stone care professional only!** Heavy restoration are the processes of removing the accumulation of scratches, etch marks and dull spots by sanding the stone with the appropriate abrasive pad. This is the same process utilized in many processing plants to achieve the factory finish. **A stone care professional only should complete this process!**

### **SPECIAL NOTE**

Normal wear and tear will wear the factory finish through abrasion. Acids in fruit juices, coffee, wine, vinegar and many household cleaners may etch the surface or damage the factory finish even when treated with an Impregnator/Penetrating Sealer.

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## **MAINTENANCE**

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### **COUNTER CLEANING**

For counters use **Miracle Sealants' Counter Kleen** or **Counter Kleen Wipes**, as often as you want, will keep it clean without streaking. **Counter Kleen** is a non-toxic cleaner that is easily sprayed onto the surface and wiped off.

1. Sweep or vacuum all dust, dirt and surface debris. Insure the surface is clean, dry and free from contaminants.
2. Ready to use. Spray directly onto counter.
3. Wipe dry using a clean dry towel.
4. No rinsing necessary.
5. Finished area can be used immediately.

6. Refer to the Product Data Sheet, Material Safety Data Sheet & Label for complete instructions.

**LIGHT CLEANING FOR THE NATURAL LOOK**

Daily cleaning of stone can consist of using **Counter Kleen**, **Counter Kleen Wipes**, **Miracle Wipes**, **Mira Clean #1** or **Liquid Poulitice** as directed previously in this guide.

**SEALING AND COLOR ENHANCEMENT**

For color enhancement we recommend **Miracle Sealants' 511 Seal & Enhance** impregnator and color enhancer. **511 Seal & Enhance** was designed to enhance the natural color and texture of all Terra Cotta, Saltillo & clay surfaces. In addition to beautifying the stone, **511 Seal & Enhance** offers stain resistance to water, oil and stains of **511 Porous Plus** all in one product. Do not dilute or thin at any time. Shake well.

**MOLD, MILDEW, BACTERIA SANITATION**

For best results in killing mold, mildew, bacteria and other microorganisms use **Miracle Sealants' Miracle Wipes**. **Miracle Wipes** is an EPA Registered product that eliminate 99.9% of common household bacteria, mold, mildew and other microorganisms. **Miracle Wipes** are especially good for food preparation surfaces, kitchen counters, and shower and bath areas.

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**SEALING MAINTENANCE**

Resealing will vary depending on porosity, density, hardness, foot traffic and the elements (indoor or outdoor) the area is exposed to. As a general rule, medium to dense surfaces exposed to heavy foot traffic can be resealed every 1-3 years. Very hard surfaces exposed to heavy foot traffic can be resealed every 3-5 years. It is important to remember that any additional or future applications of **511 Sealants** will require less sealant than originally used.

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