

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.

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

• For the best possible oil and water repellency while offering a darkening/color enhanced appearance, **511 Seal & Enhance** should be used.

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

→ In any situation where no odor can be present, use **511 H2O+** for stone 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!**

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+** 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 or **MiraBrush Applicator & Tray**.
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** 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+**, use warm water and a soft scrub pad to remove excess.
10. Allow **511** to cure 6 – 12 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, SDS (Safety Data Sheet) & Label for complete instructions.

With some difficult surfaces it may be necessary to use **Miracle Sealants’ Heavy Duty Acidic Cleaner, Phosphoric Acid Cleaner, Epoxy Grout Film Remover** or **Finish Sealer Stripper** (depending on grout type) to completely remove all grout residue.

GROUT SEALING

Although grout can be treated with **511** 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 or **MiraBrush Applicator & Tray** to grout joints.
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, SDS & 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 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 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 or **MiraBrush Applicator & Tray**.
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, SDS & Label for complete instructions.

SEALING FOR SHINE ENHANCEMENT

For a high gloss or satin finish we recommend using **High Gloss Finish/Matte Finish Sealer** 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 or **MiraBrush Applicator & Tray**.
3. Apply "Wet to the eye" to the surface.
4. Do not allow **High Gloss Finish/Matte Finish Sealer** 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, SDS & Label for complete instructions.

RESTORATION

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 a solvent base fast acting floor stripper following labels instructions carefully. To remove existing water base coatings and/or waxes use **Finish Sealer Stripper**. All dirty remains must be removed from the surface before cleaning.

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To remove existing water base coatings and waxes use **Miracle Sealants' Finish Sealer Stripper** fast acting stripper. To remove existing solvent base coatings, waxes and mastics use **Epoxy Grout Film Remover** or solvent base 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 a 175 rpm, 150 lbs. 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.
8. **Finish Sealer Stripper** 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, SDS & Label for complete instructions.

HEAVY DUTY CLEANING

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To remove hard water deposits, grout residue, efflorescence, rust and other heavy dirt and grime use **Miracle HD Cleaner, Liquid Poultrice, Phosphoric Acid Cleaner** or **Heavy Duty Acidic Cleaner**.

Acid Sensitive Surfaces should be cleaned with **Miracle Sealants' Liquid Poultrice**, a non-acidic deep cleaner designed specifically for acid sensitive stone surfaces. Use of **Liquid Poultrice** 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 Poultrice Part A** with one part **Liquid Poultrice Part B** with 2 equal parts warm water.
3. Wet the surface to be cleaned.
4. Apply **Liquid Poultrice** 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, SDS & Label for complete instructions.

For the most aggressive cleaning challenges use **Miracle Sealants' Heavy Duty Acidic Cleaner**, 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 **Heavy Duty Acidic Cleaner** with ten parts water (1:10). Do not use stronger than (1:3).
3. Wet surface to be cleaned with clean water.
4. Apply **Heavy Duty Acidic Cleaner** 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 one part **Tile & Stone Cleaner** with ten parts clean water (1:10) 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, SDS & 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 (1:10). Do not use stronger than (1:3).
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 one part **Tile & Stone Cleaner** with ten parts clean water (1:10) 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, SDS & 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** with the appropriate **MSC Cleaner** (refer to stain removal guide) 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, SDS & 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 **Limestone/Travertine Soap**. **Limestone/Travertine Soap** can also be used as an alternative for ongoing maintenance. **Limestone/Travertine Soap** will clean and protect in one step while adding a slight patina to the finish. Apply **Limestone/Travertine Soap** as often as you like, as it will hide imperfections, scratches and not build-up on the stone surface. **Limestone/Travertine 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 **Limestone/Travertine Soap** to ten parts warm water for first 6 months. After 6 months mix one part **Limestone/Travertine Soap** to twenty parts warm water.

3. Apply **Limestone/Travertine Soap** solution using a mop or sponge.
4. Do not rinse.
5. Allow **Limestone/Travertine 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, SDS & Label for complete instructions.

In kitchen and food preparation areas use **Miracle Sealants' Tile & Stone Cleaner**. Can go back to using **Limestone/Travertine Soap** after cleaning with **Tile & Stone 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 **Tile & Stone Cleaner** with ten parts warm water (1:10). For more difficult cleaning issues, use a mixture of one part **Tile & Stone Cleaner** with three parts warm water (1:3).
3. Apply **Tile & Stone Cleaner** 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, SDS & Label for complete instructions.

LIGHT CLEANING FOR COLORENHANCEMENT

Daily cleaning of pavers impregnated with **511 Seal & Enhance** can consist of using **Tile & Stone Cleaner** or **Limestone/Travertine Soap** as directed previously in this guide.

COUNTER CLEANING AND PROTECTION REJUVENATION

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' 511 Kleen & Reseal**, as needed will keep it clean without streaking while rejuvenating the protection from the appropriate **511 Sealant**. **511 Kleen & Reseal** is easily sprayed onto the surface and wiped off with a clean towel or micro fiber cloth.

1. Spray directly onto soiled area.
2. Wipe up with a clean, dry towel or sponge. No rinsing necessary.
3. Repeat for heavily soiled areas allowing product to sit for several minutes. Agitating or scrubbing with a nylon pad before wiping.
4. Finished area can be used immediately.
5. 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.