TERRAZZO TILE – HONED

MCI 101

Sidebar tabs: MARBLE · GRANITE · LIMESTONE · TRAVERTINE · SLATE · SANDSTONE AND FLAGSTONE · TERRA COTTA AND CLAY PRODUCTS · CONCRETE AND MASONRY · PORCELAIN, CERAMIC AND QUARRY TILE · OTHER

SURFACE PROTECTION, MAINTENANCE AND CARE

Resin matrix terrazzo is an extremely durable building material. Once installed, the exposed terrazzo surface will require only simple maintenance and care to preserve its beauty.

Proper surface care is the key ingredient in maintaining the tile's appearance. Proactive treatment to resist staining coupled with regular surface cleaning is the best defense against any potential surface issue. A regular cleaning routine is necessary to keep a floor looking its best. A good cleaning routine takes into account daily maintenance as well as monthly and semi-annual tile surface services.

MAINTENANCE & CARE

Routine, daily maintenance will involve keeping dirt, dust and other soiling from building up. Spills, food and other potential staining materials need to be cleaned up in a reasonable period of time. Regular sweeping and light damp mopping is advisable.

Monthly cleanings are often a simple scrubbing wash and rinse using a neutral pH stone & tile cleaner. This type of cleaning can be accomplished using a bucket and mop while a wet/dry vacuum is helpful for cleaning big floors. For commercial applications a swing machine fitted with a brush or pad or an auto-scrubber will help maintain larger installations.

Regular Maintenance Cleaning

Highly alkaline, acidic, ammonia based, and/or abrasive cleaners, or bleach may damage the terrazzo tile and may also degrade the sealer, adversely affecting stain repellency. The use of a pH neutral cleaner specifically formulated for stone & tile is the best assurance of not harming the terrazzo or degrading any applied sealers.

For routine cleaning of honed terrazzo tile:

STONETECH® Stone & Tile Cleaner

Read entire label before using. Use only as directed. Be sure surfaces to be cleaned are swept or vacuumed to remove loose debris. Avoid skin and eye contact with product. Wear protective eyewear and gloves when handling concentrate. Keep children and pets out of the area during application and drying.

1. Dilute concentrated STONETECH® Stone & Tile Cleaner with warm water according to the following mixing chart:

Use	STONETECH® Stone & Tile Cleaner (Concentrate)	Warm Water
Heavy Duty	1 part	32 part
Light Duty	1 part	64 parts

1. For damp mopping or spray and wipe cleaning:
   - Apply mixed solution with a damp mop or trigger sprayer.
   - Work surface with wrung out mop or clean towel. Wipe dry or allow to air dry.
   - When damp mopping, change mop water often to ensure that soil is not re-deposited.

2. For hand or floor machine cleaning:
   - Apply mixed solution with a mop, sponge or pump type sprayer. Thoroughly wet surface and allow to soak for a few minutes.
   - Agitate/scrub surface with mop, deck brush, or standard 175rpm floor machine fitted with an appropriate scrub pad or brush.
   - Remove cleaning liquid with mop, bucket and wringer or wet/dry vacuum. Scrubbed areas can be allowed to air dry or rinsed thoroughly with fresh water and vacuumed or air dried.

3. Let area dry completely before allowing foot traffic to resume.

Refer to data sheet DS211.0 for more information.

Heavy Duty Maintenance Cleaning

Heavy cleaning is sometimes needed to maintain a tile surface in high traffic areas or after being exposed to materials which may require more aggressive cleaning. A method for this type of cleaning is outlined below. Please note that existing sealers are often degraded or stripped out of the tile when using stronger cleaning chemicals or techniques are employed. Resealing is often necessary after this type of cleaning to maintain a stain resistant surface.

For heavy duty cleaning of honed terrazzo tile:

STONETECH KlenzAll™ Cleaner (Concentrate)

Read entire label before using. Use only as directed. Always test in a small inconspicuous area to determine ease of use and desired results. Be sure all surfaces to be cleaned are swept or vacuumed to remove loose debris. Avoid skin and eye contact with product. Wear protective eyewear, gloves, long sleeves, and long pants while handling concentrate. Ensure work area is well-ventilated during application and until surface is dry. Keep children and pets out of the area during application and drying. The following is a restorative surface cleaning process which is done in preparation for resealing or for specialized surface cleaning circumstances. This process should not damage the stone surface, however, this type of heavy duty cleaning will degrade or strip many sealers from the application.

1. Dilute concentrated cleaner with warm water according to the following mixing chart:

Use	STONETECH® KlenzAll™ Cleaner	Warm Water	pH
Heavy Duty	2 oz. (59 mL)	2 parts	11.3
Medium Duty	4 oz. (118 mL)	4 parts	11.0
Light Duty	2 oz. (59 mL)	8 parts	10.7
Acid Neutralizer	4 oz. (118 mL)	32 parts	10.5

2. Apply mixed solution with a mop, clean cloth or sprayer. Avoid applying cleaner on unintended surfaces.

3. Lightly rub with a scrub brush or floor machine as needed.

4. Remove STONETECH® KlenzAll Cleaner using a clean cloth, wet/dry vacuum or damp mop.

5. Rinse area well with clean water.

6. Reseal cleaned area with a STONETECH sealer.Once the surface is dry, reseal with STONETECH BulletProof® Sealer as needed.

Refer to data sheet DS215.0 for more information.

Surface Protection

Proper tile floor care begins with protection. For this honed terrazzo surface, STONETECH BulletProof Sealer is the preferred protector to provide high quality resistance to water or oil borne stain. Spills picked up in a timely manner will be prevented from absorbing into the tile surface and creating a difficult to remove stain.

STONETECH® BulletProof® Sealer Application

Read entire label before using. Use only as directed. Always test in a small inconspicuous area with a 24 hour cure time to determine ease of application and desired results. Allow new grout installations to cure for a minimum of 72 hours prior to application. Make sure surface is clean and free of waxes and coatings. Sealer may be applied to damp surfaces one hour after standing water has been removed. Surface temperature should be between 50°F and 80°F (10°C and 26°C). Ensure that the area is well-ventilated during application and until the surface is dry. Keep children and pets out of the area until treated surface is dry.

1. Ensure cap is closed and sealed, and shake well before use.

2. Mask off surfaces not intended to be treated.

3. Liberally apply an even coat of STONETECH® BulletProof® Sealer using a paint pad, roller, brush or low-pressure sprayer.

4. Allow sealer to penetrate the surface for 10-15 minutes. During this time, keep the surface wet with sealer, adding more sealer as needed. DO NOT ALLOW SEALER TO COMPLETELY DRY ON THE SURFACE.

5. Thoroughly wipe dry the entire surface with clean absorbent towels.

6. A second coat may be needed for porous, absorbent surfaces. If a second coat is required, it should be applied within 30-40 minutes from the initial application as directed in steps 3-5.

7. Should a sealer residue appear, rewet the impacted section of the surface with sealer. Agitate the surface with a white nylon scrubbing pad to loosen residue and wipe dry with a clean, absorbent towel.

8. A full cure is achieved in 24-72 hours. Use of the treated surface may resume in 6-8 hours. If use of the surface must resume sooner, cover the treated surface with red rosin paper to protect it until full cure has been achieved.

9. Clean tools used during application with water.

Refer to data sheet DS282.0 for more information.

CANTERA & ADOQUIN

MCI 120

NOTE: For all recommended products: Read the entire product label before using. Use only as directed. Always test in a small inconspicuous area with a 24-hour cure time to determine ease of application and desired results. Avoid skin and eye contact. Always wear appropriate safety equipment during product use.

REGULAR MAINTENANCE AND CARE

Routine, daily maintenance of cantera or adoquin surfaces will involve keeping dirt, dust and other soiling from building up. Spills, food and other potential staining materials need to be cleaned up in a reasonable period of time. Regular sweeping and light damp mopping is advisable. For larger installations these processes remain the same; only the scale will change.

Highly alkaline, acidic, ammonia based, abrasive cleaners, or bleach may damage some stone, tile and/or grout surfaces and may also degrade an applied sealer, adversely affecting stain repellency. The use of a gentle cleaner specifically formulated for stone, tile and grout maintenance is the best assurance of not harming the slate, grout or degrading any applied sealers.

Maintenance Cleaning

Both routine damp mopping and monthly scrub cleanings of cantera or adoquin surfaces can be accomplished using sponges and brushes, spray mops, and traditional mop and bucket. A wet/dry vacuum is helpful for cleaning big floors. For commercial applications a swing machine fitted with a brush or pad or an auto-scrubber will help maintain larger installations.

For routine cleaning of cantera or adoquin using a cleaner:

STONETECH® Stone & Tile Cleaner (Concentrate)

Read entire label before using. Use only as directed. Be sure surfaces to be cleaned are swept or vacuumed to remove loose debris. Avoid skin and eye contact with product. Wear protective eyewear and gloves when handling concentrate. Keep children and pets out of the area during application and drying.

1. Dilute STONETECH® Stone & Tile Cleaner (Concentrate) with warm water according to the following mixing chart:

Use	STONETECH® Stone & Tile Cleaner (Concentrate)	Warm Water
Light Duty	1 part	64 part
Heavy Duty	1 part	32 parts

2. Apply mixed solution with a damp mop, sponge or appropriate professional cleaning equipment.

3. Clean entire area with mop, changing cleaning solution often to ensure that soil is not redeposited. Wipe or rinse cleaned area.

4. Let area dry completely before using.

STONETECH Stone & Tile Cleaner (Ready-To-Use)

Read entire label before using. Use only as directed. Be sure surfaces to be cleaned are swept or vacuumed to remove loose debris. Avoid skin and eye contact with product. Wear protective eyewear and gloves when handling concentrate. Keep children and pets out of the area during application and drying.

1. Spray or pour directly onto soiled area.

2. Wipe clean with a dry towel, lint free cloth or sponge. No need to rinse.

3. Repeat for heavily soiled areas using a non-abrasive scrubbing pad.

4. Wipe clean with a dry towel.

Refer to data sheet DS211.0 for more information.

NEW INSTALLATION PRE-GROUT TREATMENT

Grouting cleanup is often easier when the stone is sealed prior to grouting. Cantera or adoquin can be porous and is susceptible to grout staining and may benefit from sealing prior to grouting.

A simple water test can be performed to identify if the stone is porous. If the Cantera or Adoquin darkens after applying water to the stone surface and waiting for 5 minutes, the stone is absorbent and applying a sealer prior to grouting may aid in clean up after grouting. For most stones that darken when wet a single application of sealer is generally sufficient as a pre-grouting treatment.

For a pre-grout sealer for cantera or adoquin:

STONETECH Heavy Duty Sealer

Pre-Grout Sealer Application

Read entire label before using. Use only as directed. Always test in a small inconspicuous area with a 24-hour cure time to determine ease of application and desired results. Make sure surface is clean and free of waxes and coatings. STONETECH® Heavy Duty Sealer may be applied to damp surfaces one hour after standing water has been removed. Surface temperature should be between 50°F - 80°F (10°C - 26°C). Ensure that the area is well-ventilated during application and until the surface is dry. Keep children and pets out of the area until treated surface is dry.

1. Ensure cap is closed and sealed, and shake well before use.

2. Mask off surfaces not intended to be treated.

3. Liberally apply an even coat of STONETECH Heavy Duty Sealer using a paint pad, roller, brush or low pressure sprayer.

4. Allow sealer to penetrate the surface for 10-15 minutes. During this time, keep the surface wet with sealer, adding more sealer as needed. DO NOT ALLOW SEALER TO COMPLETELY DRY ON THE SURFACE.

5. Thoroughly wipe dry the entire surface with clean absorbent towels.

6. A second coat may be needed for porous, absorbent surfaces. If a second coat is required, it should be applied within 30-40 minutes from the initial application as directed in steps 3-5.

7. Allow sealer to cure for 24 hours prior to grouting.

8. Clean tools used during application with water.

Refer to data sheet DS279.0 for more information.

RESTORATIVE DEEP CLEANING

Stone, tile and grout installations can become heavily soiled over time. Restorative cleaning procedures will help return these surfaces to a more acceptable appearance.

The following restorative surface cleaning processes are done in preparation for resealing or for specialized surface cleaning circumstances. These cleaning processes should not damage the surface of the tile or grout, however, these types of heavy duty cleaning may degrade or strip many sealers from the application.

Depending on the type of soiling or staining, select one of the following options:

For cleaning grease, oil, dirt, dry soil, or to prepare for resealing:

STONETECH KlenzAll™ Cleaner (Concentrate)

Read entire label before using. Use only as directed. Always test in a small inconspicuous area to determine ease of use and desired results. Be sure all surfaces to be cleaned are swept or vacuumed to remove loose debris.

Avoid skin and eye contact with product. Wear protective eyewear, gloves, long sleeves, and long pants while handling concentrate. Ensure work area is well-ventilated during application and until surface is dry. Keep children and pets out of the area during application and drying.

The following is a restorative surface cleaning process which is done in preparation for resealing or for specialized surface cleaning circumstances. This process should not damage the stone surface, however, this type of heavy duty cleaning will degrade or strip many sealers from the application.

1. Dilute concentrated STONETECH KlenzAll™ Cleaner with warm water according to the following mixing chart:

Use	STONETECH KlenzAll™ Cleaner (Concentrate)	Warm Water	pH
Light Duty	1 part	8 parts	10.7
Medium Duty	1 part	4 parts	11
Heavy Duty	1 part	2 parts	11.3

2. Apply mixed solution with a mop, clean cloth or low-pressure sprayer. Avoid applying cleaner on unintended surfaces.

3. Lightly scrub with a scrub brush or floor machine as needed.

4. Remove STONETECH KlenzAll Cleaner using a clean cloth, wet/dry vacuum or damp mop.

5. Rinse area well with clean water. Allow area to dry completely.

6. Some surfaces may require additional cleaning. If so, repeat steps 2 – 5 above.

7. Reseal cleaned area with an appropriate STONETECH sealer (e.g. STONETECH Heavy Duty Sealer).

Refer to data sheet DS215.0 for more information.

Removal of efflorescence, mineral deposits, and calcium based staining:

STONETECH Restore™ Acidic Cleaner

Read entire label before using. Use only as directed. Always test in a small inconspicuous area to determine required dilution and results. Be sure all surfaces to be cleaned are swept or vacuumed to remove loose debris. Heavy duty dilution may darken some surfaces. **This acid-based cleaner will etch or damage most marble, limestone and travertine surfaces. Will etch or corrode most metal surfaces.** Avoid skin and eye contact. Wear protective eyewear, gloves, long sleeves, and long pants while handling product. Ensure work area is well-ventilated during application and until surface is dry. Keep children and pets out of the area during application and drying.

1. Dilute concentrated STONETECH Restore™ Acidic Cleaner with warm water according to the following mixing chart:

Use	STONETECH Restore™ Acidic Cleaner (Concentrate)	Warm Water	pH
Light Duty	1 part	16 parts	1.4
Medium Duty	1 part	4 parts	1.2
Heavy Duty	1 part	1 part	<1

MARBLE

GRANITE

LIMESTONE

TRAVERTINE

SLATE

SANDSTONE AND FLAGSTONE

TERRA COTTA AND CLAY PRODUCTS

CONCRETE AND MASONRY

CERAMIC AND PORCELAIN TILE

OTHER

2. Mask off and protect any metals or other surfaces not intended to be treated. Apply mixed solution with a clean mop, or towel.

3. Agitate with a scrub brush or floor machine as needed.

4. Remove STONETECH® Restore™ Acidic Cleaner using a clean cloth, wet/dry vacuum or damp mop.

5. Rinse area well with clean water and wipe dry.

6. Thoroughly rinse all metal surfaces with clean water. Clean and rinse equipment with water.

7. Reseal cleaned area with an appropriate STONETECH sealer (e.g. STONETECH Heavy Duty Sealer)

Refer to data sheet DS216.0 for more information.

Removal of epoxy or single component grout hazes, stripping topical coatings, acrylic finishes or heavy waxes:
STONETECH® Heavy Duty Coating Stripper

Read entire label before using. Use only as directed. Test in a small inconspicuous area to determine ease of application and desired results. Be sure all surfaces to be cleaned are swept or vacuumed to remove loose debris. Ensure work area is well-ventilated during application and until surface is dry. Keep children and pets out of the area until surface use resumes. Avoid contact with surfaces not intended to be treated. Avoid applying in direct sunlight. Should not be used in extreme temperatures. Recommended application temperature range is between 50°F - 90°F (10 °C - 32 °C).

1. SHAKE WELL BEFORE USING. Do not dilute before applying.

2. Wear rubber gloves and eye protection during handling and application to prevent skin and eye contact.

3. Liberally apply an even coat of STONETECH Heavy Duty Coating Stripper over the required area with a paint brush, mop or paint pad. DO NOT APPLY WITH A SPRAYER. Immediately remove STONETECH Heavy Duty Coating Stripper from unintended surfaces with a wet cloth to prevent potential damage to those surfaces.

4. Application time will vary depending on type of coating being removed. Approximate application times are as follows:

Coating Type	Application Dwell Time
Sealer, wax or varnish	30 – 60 minutes
Polyurethane or acrylic	1 to 2 hours
Epoxy Grout Haze	1 to 2 hours

5. Do not let STONETECH Heavy Duty Coating Stripper dry on the surface. If STONETECH Heavy Duty Coating Stripper starts to dry, add additional product to keep surface wet.

6. Agitate surface with a nylon scrub brush or pad after testing a small area first to make sure that brush or pad will not scratch the surface. Surface can be wet with water to enable easier removal of coating.

7. Wipe up residual STONETECH Heavy Duty Coating Stripper with clean, dry cloth or wet mop. A wet/dry vacuum can be used for larger area.

8. Rinse surface well with clean water.

9. More than one application may be required, repeat steps 3 through 8 when necessary.

10. Surface traffic may begin 2 hours after removal of coating.

Refer to data sheet DS235.0 for more information.

For spot or small area deep cleaning:
STONETECH DeepKlenz™ Cleaner

Read entire label before using. Use only as directed. Always test in a small inconspicuous area to determine ease of use and desired results. Make sure all surfaces to be cleaned are swept or vacuumed to remove loose debris. Keep children and pets out of the area during application and drying.

1. Thoroughly wet surface by directly spraying onto soiled area.

2. Allow STONETECH DeepKlenz™ Cleaner to work on the surface for 5-10 minutes. Do NOT allow product to dry on the surface.

3. Lightly scrub with a stiff bristle brush to remove the surface contaminants.

4. Rinse and wipe surface with clean cloth and warm water. Repeat as needed for heavy soiled areas.

5. Reseal cleaned area with an appropriate STONETECH sealer (e.g. STONETECH Heavy Duty Sealer)

Refer to data sheet DS111.2 for more information.

For cleaning and removing soap scum:
STONETECH Soap Scum Remover

Read entire label before using. Use only as directed. Always test in a small inconspicuous area to determine ease of use and desired results. Be sure surfaces to be cleaned are swept or vacuumed to remove loose debris. Avoid skin and eye contact. Wear protective eyewear and gloves. Keep children and pets out of the area during application and drying.

1. Spray STONETECH Soap Scum Remover directly on soiled areas. Avoid applying onto unintended surfaces.

2. Wipe surface with clean, dry cloth or scrub with stiff nylon brush as needed.

3. Rinse area well with clean water.

4. Wipe area dry with clean cloth.

5. Repeat as needed for heavily soiled areas.

Refer to data sheet DS229.0 for more information.

For cleaning and removing mold and mildew:
STONETECH Mold & Mildew Stain Remover

Read entire label before using. Use only as directed. Always test in a small inconspicuous area to determine ease of use and desired results. Be sure surfaces to be cleaned are swept or vacuumed to remove loose debris. Avoid skin and eye contact. Wear protective eyewear and gloves. Keep children and pets out of the area during application and drying. Do not mix this product with other household cleaners or metals.

1. Spray STONETECH Mold & Mildew Stain Remover directly on soiled areas. Avoid applying onto unintended surfaces.

2. Clean surface with non-abrasive sponge or stiff nylon brush as needed.

3. Rinse area well with clean water.

4. Repeat as needed for heavily-soiled areas.

Refer to data sheet DS 219.0 for more information.

For oil stain removal:
STONETECH Oil Stain Remover

Read entire label before using. Use only as directed. Always test in a small inconspicuous area to determine that the desired results will be achieved. Make sure surface is clean, dry, and free of waxes and coatings. Ensure that area is well-ventilated and keep children and pets away from the area during application and until surface is clean and dry.

1. Using a plastic or wood spatula, stir thoroughly to mix the paste.

2. Apply a ¼" (6 mm) thick layer of paste to the stain. Ensure that the paste extends at least 1" - 2" (25 – 50 mm) beyond the edge of the stain.

3. Do not cover.

4. Allow 48 – 72 hours for STONETECH Oil Stain Remover to dry.

5. Using a plastic spatula, remove the dried STONETECH Oil Stain Remover and discard.

6. Allow solvent to completely dry from the stone.

7. If stain is not completely gone after drying, repeat process.

8. Clean up residue and tools with mineral spirits.

9. Once the surface is dry, reseal the cleaned area with an appropriate STONETECH sealer (e.g. STONETECH Heavy Duty Sealer)

Refer to data sheet DS 214.0 for more information.

SEALING AND PROTECTING:

All cantera and adoquin is susceptible to staining from both oil and water-based materials and sealing will help protect the stone's appearance. The cement grouts used in cantera or adoquin tile installations will also be more stain resistant with the application of a penetrating sealer.

For interior and exterior natural look protection from water- and oil-based staining:
STONETECH Heavy Duty Sealer

Read entire label before using. Use only as directed. Always test in a small inconspicuous area with a 24-hour cure time to determine ease of application and desired results. Allow new grout installations to cure for a minimum of 72 hours prior to application. Make sure surface is clean and free of waxes and coatings. Sealer may be applied to damp surfaces one hour after standing water has been removed. Surface temperature should be between 50°F - 80°F (10°C - 26°C). Ensure that the area is well-ventilated during application and until the surface is dry. Keep children and pets out of the area until foot traffic resumes.

1. Ensure cap is closed and sealed, and shake well before use.

2. Mask off surfaces not intended to be treated.

3. Liberally apply an even coat of STONETECH Heavy Duty Sealer using a paint pad, roller, brush or low-pressure sprayer.

4. Allow sealer to penetrate the surface for 10-15 minutes. During this time, keep the surface wet with sealer, adding more sealer as needed. DO NOT ALLOW SEALER TO COMPLETELY DRY ON THE SURFACE.

5. Thoroughly wipe dry the entire surface with clean absorbent towels.

6. A second coat may be needed for porous, absorbent surfaces. If a second coat is required, it should be applied within 30-40 minutes from the initial application as directed in steps 3-5.

7. Should a sealer residue appear, rewet the impacted section of the surface with sealer. Agitate the surface with a white nylon scrubbing pad to loosen residue and wipe dry with a clean, absorbent towel.

8. A full cure is achieved in 24-72 hours. Use of the treated surface may resume in 6-8 hours. If use of the surface must resume sooner, cover the treated surface with red rosin paper to protect it until full cure is achieved.

9. Clean tools used during application with water.

Refer to data sheet DS279.0 for more information.

For a natural look water repellent on exterior surfaces:
STONETECH Heavy Duty Exterior Sealer

Read entire label before using. Use only as directed. Always test in a small inconspicuous area with a 24-hour cure time to determine ease of application and desired results. Allow new grout installations to cure for a minimum of 72 hours prior to application. Make sure surface is clean, thoroughly dry and free of waxes and coatings. Surface temperature should be between 50°F - 80°F (10°C - 26°C). Keep children and pets out of the area until surface use resumes.

1. Mask off any surfaces not intended to be treated.

2. Liberally apply an even coat of STONETECH Heavy Duty Exterior Sealer with a paint pad, paintbrush, paint roller or solvent-resistant, low-pressure sprayer. Do not use power sprayer. Do not thin before using. See method of application.

3. Allow sealer to penetrate the surface for 5–15 minutes; denser material may require more time for sealer to penetrate. During this time, distribute excess sealer over entire area to ensure even penetration. DO NOT ALLOW EXCESS SEALER TO DRY ON THE SURFACE.

4. Thoroughly wipe dry the entire surface with a clean dry cloth to completely remove all excess sealer from the surface.

5. A second coat may be needed for porous, absorbent surfaces and should be applied one hour after initial application as directed in steps 2–4.

6. If sealer was not completely wiped off and a residue appears, wipe entire surface with a towel dampened with sealer. Use a white nylon pad to loosen residue and follow with a clean, white absorbent towel to remove.

7. Full cure is achieved in 24–72 hours. Surface use may resume in 4-6 hours.

8. Clean up promptly after job is complete, since rags and equipment that are wet with product may be combustible. Clean equipment with mineral spirits and allow equipment and rags to dry in a well-ventilated area out of reach of children and pets. After rags are dry, dispose of in accordance with local waste disposal regulations.

Refer to data sheet DS212.5 for more information.

For a salt water resistant protector:
STONETECH® Salt Water Resistant Sealer

Not intended for use on surfaces that have been previously exposed to salt water or deicing salts. Read entire label before using. Use only as directed. Always test in a small inconspicuous area with a 24-hour cure time to determine ease of application and desired results. Allow new grout installations to cure for a minimum of 72 hours prior to application. Make sure surface is clean, dry and free of waxes and coatings. Surface temperature should be between 35°F - 90°F (2°C – 32°C). Keep children and pets out of the area until surface use resumes.

1. Mask off any surfaces not intended to be treated.

2. Liberally apply an even coat of STONETECH® Salt Water Resistant Sealer with a bristle paint brush or paint roller.

3. Allow sealer to penetrate the surface for 15–20 minutes. During this time, distribute excess sealer over entire area to ensure even penetration. Do not allow sealer to pool on the surface. DO NOT ALLOW EXCESS SEALER TO DRY ON THE SURFACE.

4. Thoroughly wipe the entire surface with a clean dry cloth to completely remove all excess sealer from the surface.

5. For protection against de-icing salts, a second coat is recommended and should be applied 15-20 minutes after the initial application as directed in steps 2-4.

6. The sealer should be fully cured prior to water contacting the surface. Full cure is achieved in 72 hours. If there is a possibility of rain within the 72 hour cure time, cover surface so it remains dry.

7. Clean tools used during application with water.

8. If resistance to oily stains is also desired, apply STONETECH BulletProof® Sealer after Salt Water Resistant Sealer has fully cured.

Refer to data sheet DS288.0 for more information.

For a color enhancing impregnating sealer for interior surfaces:
STONETECH Enhancer Sealer (Water-based)

Read entire label before using. Use only as directed. Test in a small inconspicuous area with a 24-hour cure time to determine ease of application and desired results. Allow new grout installations to cure for at least 72 hours prior to application. Be sure surface is clean, thoroughly dry and free of sealers, waxes and coatings. Not recommended for exterior surfaces. Surface temperature should be between 50°F – 80°F (10°C - 26°C). Avoid skin and eye contact. Wear protective eyewear and gloves. Ensure work area is well-ventilated during application and until surface is dry. Keep children and pets out of the area during application and drying.

1. Shake well before using.

2. Apply STONETECH Enhancer Sealer evenly and liberally using a paint pad, low-pressure chemicalresistant sprayer, roller or brush. Avoid applying sealer on unintended surfaces.

3. Allow sealer to penetrate surface for 15–30 minutes; denser material may require maximum time to penetrate surface. Spread excess sealer over entire area for even penetration.

4. Following penetration time, completely wipe surface dry with a clean dry towel. DO NOT ALLOW EXCESS TO DRY COMPLETELY ON SURFACE.

5. A second coat may be needed for porous, absorbent surfaces or if a darker appearance is required. Apply second coat 1 hour after start of initial application following directions in steps 1–4.

6. A full cure is achieved after 24–72 hours. Surface traffic may begin in 6–8 hours. If needed sooner, cover the floor with red rosin paper to protect it until the recommended time periods have passed.

7. Clean tools used during application with water.

Refer to data sheet DS217.5 for more information.

For a color enhancing impregnating sealer for interior and exterior surfaces:
STONETECH Enhancer Pro™ Sealer (Solvent-based)

Read entire label before using. Use only as directed. Always test in a small inconspicuous area with a 24-hour cure time to determine ease of application and desired results. Allow new grout installations to cure for a minimum of 72 hours prior to application. Make sure surface is clean, free of waxes, coatings, and previous sealers, and is dry for 24-72 hours. Surface temperature should be between 50°F - 80°F (10°C - 26°C). Ensure that the area is well-ventilated during application and until treated surface is dry. Keep children and pets out of the area until treaded surface is dry.

1. Mask off any surfaces not intended to be treated.

2. Liberally apply an even coat of STONETECH Enhancer Pro™ Sealer using a paint pad, roller, brush, or pump-up garden sprayer. Do not use a power sprayer, towel, or sponge for application. Do not thin before using.

3. Allow Sealer to penetrate surface for 15-20 minutes. Denser material may require more time to penetrate. DO NOT ALLOW EXCESS SEALER TO DRY ON SURFACE. Failure to remove excess sealer from surface may result in residue that may need to be mechanically removed.

4. Thoroughly wipe surface with multiple dry cloths to remove all excess sealer.

5. A second coat may be needed for more absorbent surfaces or if darker appearance is required. Sealer should be applied one hour after start of initial application, as directed in steps 2-4.

6. Full cure is achieved after 24-72 hours. Avoid surface traffic for 6-8 hours after application. If surface traffic must resume sooner, cover the floor with red rosin paper to protect it until full cure has been achieved. Red rosin paper is not needed to apply second coat.

7. Clean up promptly after job is complete. Rags and equipment that are wet with product may be flammable. Clean equipment with mineral spirits and allow to dry in a well-ventilated area. Allow rags to dry in a well-ventilated area out of reach of children and pets. When dry, dispose of in accordance with local waste disposal regulations.

Refer to data sheet DS218.5 for more information.

For a color enhancing topical protector on textured surfaces:
STONETECH High Gloss Finishing Sealer

Read entire label before using. Use only as directed. Always test in a small inconspicuous area to determine appropriate application method, achievement of desired results, and to ensure good adhesion. Surface must be thoroughly clean, dry, and free of any sealers or coatings before application. Application to a dirty or dusty surface will affect adhesion and appearance. Avoid applying in direct sunlight, surface temperature should be 50°F – 80°F (10°C - 26°C). STONETECH® High Gloss Finishing Sealer should not be applied to a wet or moist surface. Avoid applying onto surfaces not intended for treatment. For new installations with grout, sealer can be applied as soon as 72 hours after grouting. Fresh concrete slabs require a minimum of 28 days to cure before applying the sealer. Keep children and pets out of the area until treated surface is dry.

1. SHAKE WELL BEFORE USING. Do not dilute before applying.

2. Liberally apply 1-3 even coats of STONETECH High Gloss Finishing Sealer with a natural bristle paint brush, paint roller, low pressure sprayer, or pump-up garden sprayer. Avoid puddling of product during application.

3. Allow 30-45 minutes between coats or until the surface is dry.

4. Surface traffic may begin 12 hours after final application; keep installation dry for a minimum of 12 hours; full cure is achieved in 24-48 hours.

5. Keep surfaces clean and dry as finished surfaces may become slippery when wet.

6. Clean tools used during application immediately with water.

Refer to data sheet DS219.5 for more information.

STONETECH Semi Gloss Finishing Sealer

Read entire label before using. Use only as directed. Always test in a small inconspicuous area to determine appropriate application method, achievement of desired results, and to ensure good adhesion. Surface must be thoroughly clean, dry, and free of any sealers or coatings before application. Application to a dirty or dusty surface will affect adhesion and appearance. Avoid applying in direct sunlight, surface temperature should be 50°F – 80°F (10°C - 26°C). STONETECH Semi Gloss Finishing Sealer should not be applied to a wet or moist surface. Avoid applying onto surfaces not intended for treatment. For new installations with grout, sealer can be applied as soon as 72 hours after grouting. Fresh concrete slabs require a minimum of 28 days to cure before applying the sealer. Keep children and pets out of the area until treated surface is dry.

1. SHAKE WELL BEFORE USING. Do not dilute before applying.

2. Liberally apply 1-3 even coats of STONETECH Semi Gloss Finishing Sealer with a natural bristle paint brush, paint roller, or paint pad. Do not apply product with a sprayer. Avoid puddling of product during application.

3. Allow 30-45 minutes between coats or until the surface is dry.

4. Surface traffic may begin 12 hours after final application; keep installation dry for a minimum of 12 hours; full cure is achieved in 24-48 hours.

5. Keep surfaces clean and dry as finished surfaces may become slippery when wet.

6. Clean tools used during application immediately with water.

Refer to data sheet DS220.5 for more information.

MARBLE

GRANITE

LIMESTONE

TRAVERTINE

SLATE

SANDSTONE AND FLAGSTONE

TERRA COTTA AND CLAY PRODUCTS

CONCRETE AND MASONRY

PORCELAIN, CERAMIC AND QUARRY TILE

OTHER

LARGE AREA SEALER APPLICATION METHODS

MCI 102

NOTE: For all recommended products: Read the entire product label before using. Use only as directed. Always test in a small inconspicuous area with a 24-hour cure time to determine ease of application and desired results. Avoid skin and eye contact. Always wear appropriate safety equipment during product use.

SEALER APPLICATION METHODS FOR LARGE INSTALLATIONS

Proper sealer application provides the maximum performance benefit for stone, masonry and grout applications. The standard application method remains essentially the same no matter how large the area being sealed. The main difference would be how the sealer is applied and any excess material removed.

In order to get the best performance from a STONETECH® sealer the application directions provided may be adapted to the given project. Typically, penetrating sealers are applied to the substrate's surface, allowed to dwell, and then any remaining sealer is wiped off, leaving a dry, clean surface. Subsequent applications are performed in an identical manner, usually after a period of time. Then the applied STONETECH sealer is allowed to cure for the stated period of time.

In scaling up applications for larger areas, the standard methods are adapted to the individual project utilizing available equipment and skilled labor. Typically a crew of 2-4 using standard equipment includes pump sprayers, 17" floor buffers, floor squeegees, cotton string mops, floor polishing pads, and cotton buffer bonnets is ideal for sealing large projects.

The method described below are shown as directed for sealing large areas with STONETECH BulletProof® Sealer:

Application

Liberally apply an even coat using a paint pad, roller, brush or low-pressure sprayer. A low pressure, pump type sprayer is the main tool to apply penetrating sealers to large, open areas. Rollers, paint pads, or lamb's wool applicators are used for more confined areas, wainscot, walls and staircases. No matter which method is used to apply the STONETECH BulletProof Sealer the correct application is a thin, wet film of sealer on the surface of the stone.

Dwell Time

Allow sealer to penetrate the surface for 10–15 minutes. During this time, keep the surface wet with sealer, adding more sealer as needed. DO NOT ALLOW SEALER TO COMPLETELY DRY ON THE SURFACE.

In order for the sealer to perform correctly, the sealer must penetrate into the stone. In order for proper saturation the sealer must stay wet on the surface for the suggested dwell time for the product being used.

On a small scale project, the applicator can use a brush or roller to move the sealer over the surface of a floor or countertop. In order to accomplish the same type of action on a large area, the brush or roller can be replaced with a large string mop or a soft bristle push broom. For large areas, a single head floor machine fitted with a polishing pad will help maintain an even wet film.

On large scale applications, keeping the sealer wet on the surface is crucial. Once a sealer dries it can no longer soak into the stone surface. Dried sealer will form a film that can be difficult to clean quickly. In order to accomplish this effectively, the sealer should be kept moving on the surface and more should be added as needed.

Removing the Excess Sealer

Following the final application, thoroughly wipe dry the entire surface with clean absorbent towels.

Once the sealer has saturated the stone surface for the required period of time, any sealer that has not absorbed will need to be completely removed before it dries. On a countertop this can be accomplished with handheld towels. On larger scale projects, squeegees can be used to pull excess sealer to a next section and a cotton bonnet can be fitted to a floor machine to finish drying the surface. Residual streaking can be removed with a floor machine fitted with a natural hair pad.

Additional Coats of Sealer

A second coat may be needed for porous, absorbent surfaces. If a second coat is required, it should be applied 30– 40 minutes after the initial application. Additional sealer applications are typically recommended for higher traffic floors. When sealing larger sections care must be taken to not allow too much time to elapse between coats. Adjusting size of each section will allow for proper timing.

Curing

A full cure is achieved in 24–72 hours. Use of the treated surface may resume in 6–8 hours. If use of the surface must resume sooner, cover the treated surface with red rosin paper to protect it until full cure has been achieved.

Penetrating sealers require a cure time for the active ingredients to achieve maximum effectiveness. These curing times are typically 24 – 72 hours or longer. It is important that the stone surface not be subject to cleaning, liquid spills or uncovered foot traffic until full cure is achieved.

Read and follow the data sheet and installation instructions prior to using any STONETECH Sealer.

MARBLE

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