STONETECH® Maintenance & Care

Origami

MCI 119

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.

NEW INSTALLATION PRE-GROUT TREATMENT

Grouting cleanup is often easier when the tile is sealed prior to grouting. Concrete and cement materials can be porous and are 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 concrete or cement material darkens after applying water to its surface and waiting for 5 minutes, then the material is absorbent and applying a sealer prior to grouting may aid in clean up after grouting. For most tiles that darken when wet a single application of sealer is generally sufficient as a pre-grouting treatment.

For a pre-grout sealer for concrete or cement brick or tiles:

STONETECH® BulletProof® Sealer

Pre-Grout Sealer Application

Read the 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 be cured for at least 72 hours before application. Make sure the 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 - 90°F (10°C - 32°C). Ensure that the area is well-ventilated during application and until the surface is dry. For best results, keep heavy foot traffic, children, and pets out of the treated area until completely dry.

1. Shake well with cap closed.
2. Mask off any surfaces not intended to be treated.
3. Apply a liberal, even coat with a paint pad, roller, brush, or low-pressure sprayer. Product may appear opaque or milky when applied but it will dry clear. Ensure to work in manageable sections.

4. Allow the 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. At the end of the dwell time, thoroughly wipe the entire surface dry with clean absorbent towels, a floor machine fitted with cotton bonnet or any similar absorbing technique that removes all remaining sealer from the brick surface.
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. If sealer residue appears, reapply a small amount of sealer to the affected area. Allow it to dwell for 3–5 minutes, then agitate the surface with a white nylon scrubbing pad to loosen the residue. Wipe the area completely 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 DS 282.0 for more information.

SEALING AND PROTECTING:

Origami tiles are susceptible to staining from both oil and water-based materials and sealing will help protect the tile's appearance. The cement grouts used in concrete and cement brick installations will also be more stain resistant with the application of a penetrating sealer. Testing of these cement tiles showed that a 3-4 coat minimum application would be necessary for either one of the penetrating sealers listed below.

For exterior natural look protection from water- and oil-based staining:

STONETECH® BulletProof®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 treated surface is dry.

1. Shake well with cap closed.
2. Mask off any surfaces not intended to be treated.
3. Apply a liberal, even coat with a paint pad, roller, brush, or low-pressure sprayer. Product may appear opaque or milky when applied but it will dry clear. Ensure to work in manageable sections.

4. Allow the 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. At the end of the dwell time, thoroughly wipe the entire surface dry with clean absorbent towels, a floor machine fitted with cotton bonnet or any similar absorbing technique that removes all remaining sealer from the stone surface.
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. If sealer residue appears, reapply a small amount of sealer to the affected area. Allow it to dwell for 3–5 minutes, then agitate the surface with a white nylon scrubbing pad to loosen the residue. Wipe the area completely 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 DS 282.0 for more information.

For a natural look, weather resistant water and oil repellent on exterior surfaces:

STONETECH Heavy Duty Sealer

Read the 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 be cured for at least 72 hours before application. Make sure the 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 - 90°F (10°C - 32°C). Ensure that the area is wellventilated during application and until the surface is dry. For best results, keep heavy foot traffic, children, and pets out of the treated area until completely dry.

1. Shake well with cap closed.
2. Mask off any surfaces not intended to be treated.
3. Apply a liberal, even coat with a paint pad, roller, brush, or low-pressure sprayer. Product may appear opaque or milky when applied but it will dry clear. Ensure to work in manageable sections.
4. Allow the 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. At the end of the dwell time, thoroughly wipe the entire surface dry with clean absorbent towels, a floor machine fitted with cotton bonnet or any similar absorbing technique that removes all remaining sealer from the stone surface.
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. If sealer residue appears, reapply a small amount of sealer to the affected area. Allow it to dwell for 3–5 minutes, then agitate the surface with a white nylon scrubbing pad to loosen the residue. Wipe the area completely 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 DS 279.0 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 the entire label before using. Use only as directed. Always test in a small inconspicuous area with a 24hour cure time to determine ease of application and desired results. Allow new grout installations to be cured for a minimum of 72 hours prior to application. Make sure the surface is clean, dry, and free of waxes and coatings. Surface temperature should be between 35°F - 90°F (2 – 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 STONETECH Salt Water Resistant Sealer has fully cured.

Refer to DS 288.0 for more information.

For a color enhancing impregnating sealer for exterior surfaces:

STONETECH® Enhancer Pro™ Sealer

Read the 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. When used as a grout release, apply 1–2 coats before grouting and allow 24 hours to cure. Allow new grout installations to cure for a minimum of 72 hours prior to application. Make sure the surface is clean, free of waxes, coatings, and previous sealers, and is dry for 24-72 hours. Surface temperature should be between 50°F - 90°F (10°C - 32°C). Ensure that the area is well-ventilated during application and until the treated surface is dry. For best results, keep heavy foot traffic, children, and pets out of the treated area until completely 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.
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 tools used during application with water.

Refer to DS 218.5 for more information.

REGULAR MAINTENANCE AND CARE

Routine, daily maintenance of concrete and cement surfaces will involve keeping dirt, dust, and other soiling from building up. Exterior installations will often require more intensive maintenance and care processes. 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 any 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 concrete, cement bricks, pavers, grout or degrading any applied sealers.

Removal of epoxy grout hazes, stripping topical coatings, acrylic finishes, or heavy waxes:

STONETECH® Epoxy Grout Haze & Coating Stripper

Read the 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 the work area is well-ventilated during application and until the 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. It 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 Epoxy Grout Haze & Coating Stripper over the required area with a paint brush, mop or paint pad. DO NOT APPLY WITH A SPRAYER.
   i. Immediately remove STONETECH Epoxy Grout Haze & 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:

Haze / Coating	Surface Type	Age of Haze/Coating		
		24 Hour	**7 Days**	**> 7 Days**
Epoxy Grout Haze	Tile	1 – 3 minutes	3 – 5 minutes	10 minutes
Epoxy Grout Haze	Natural Stone & Masonry	1 – 3 minutes	3 – 5 minutes	10 minutes
Coatings *	Tile	1 – 5 minutes		
Coatings *	Natural Stone & Masonry	1 – 5 minutes		10 minutes

5. Do not let STONETECH Epoxy Grout Haze & Coating Stripper dry on the surface. If STONETECH Heavy Duty Epoxy Grout Haze & 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 Epoxy Grout Haze & Coating Stripper 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 DS 116.4 for more information.

Maintenance Cleaning

Both routine damp mopping and monthly scrub cleanings of saltillo, terra cotta or clay brick 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. STONETECH has two maintenance cleaners suitable for saltillo, terra cotta or clay brick surfaces.

For routine cleaning of saltillo, terra cotta or clay brick using a cleaner and protector:

STONETECH® Revitalizer® Cleaner and Protector (Concentrate)

Read the entire label before using. Use only as directed. Be 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. Gently shake before use.
2. Dilute STONETECH Revitalizer Cleaner and Protector (Concentrate) with warm water according to the following mixing chart:

Use	STONETECH® Revitalizer® Cleaner & Protector (Concentrate)	Warm Water
Spray Refill	1 part	1 part
Light Duty	1 part	4 parts

3. Apply diluted solution with a damp mop, towel, sponge or low-pressure sprayer. Revitalizer will appear opaque and milky.
4. Rub surface lightly and remove any excess cleaner. No need to rinse.
5. Let area dry completely before using.

STONETECH® Revitalizer® Cleaner and Protector (Ready-To-Use)

Read entire label before using. Use only as directed. Be 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. To refill 24 oz. (709 mL) spray bottle, use a funnel.
2. Gently shake before use
3. Spray or pour directly onto soiled area. Will appear opaque and milky.
4. Wipe clean with a dry towel, lint free cloth or sponge. No need to rinse.
5. Repeat for heavily soiled areas using a non-abrasive scrubbing pad.
6. Wipe clean with a dry towel.

Refer to DS 212.0 for more information.

For routine cleaning of concrete and cement brick using a cleaner:

STONETECH Stone & Tile Cleaner (Concentrate)

Read the 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 parts
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 the 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 DS 211.0 for more information.

RESTORATIVE DEEP CLEANING

Stone, tile and grout installations can become heavily soiled over time. Restorative cleaning processes 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 saltillo, terra cotta or clay brick. However, these types of heavy-duty cleaning methods may degrade or strip many sealers from the application.

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

For spot or small area deep cleaning:

STONETECH® DeepKlenz™ Cleaner

STONETECH® DeepKlenz™ Cleaner

Read the entire label before using. Use only as directed. Test in a small inconspicuous area to determine required 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 the work area is well-ventilated during application and until the surface is dry. Keep children and pets out of the area during application and drying. Recommended application temperature range is between 40°F - 100°F (4°C - 38°C).

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 the 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 BulletProof® Sealer).

Refer to DS111.2 for more information.

For cleaning and removing soap scum:

STONETECH Soap Scum Remover

Read the 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 DS 229.0 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 DS 219.0 for more information.

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

STONETECH® KlenzAll™ Cleaner (Concentrate)

Read the 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 the work area is well-ventilated during application and until the 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 brick 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 BulletProof® Sealer).

Refer to DS 215.0 for more information.