

Lueders Limestone

READ ALL INSTRUCTIONS AND PRODUCT LABELS COMPLETELY BEFORE USING

Pretest in an inconspicuous area prior to application to determine if the desired results will be achieved and that the stone is not adversely affected.

New Installations

Follow the recommended installation methods and procedures of the Marble Institute of America and the Tile Contractors Association.

Pre-Grouting

For making grout clean up easier on porous stone:

- 1) Sweep or dust mop loose dirt and debris.
- 2) Insure that surface temperature of the stone is between 50-80°F.
- 3) Apply a single coat of StoneTech Professional™ Grout Release using a low-pressure chemical-resistant sprayer, roller or brush.
- 4) Allow the Grout Release to completely penetrate the stone for 5-15 minutes.
- 5) Wipe up all remaining sealer from the surface of the stone. Do not allow pooling or sealer to dry on the surface. Do not over apply.
- 6) Allow for a minimum of 4 hours cure time prior to grouting.
- 7) After grouting, remove excess grout. Do not allow grout to completely dry prior to removal.
- 8) Expected coverage for Grout Release is 600-800 sq. ft. per gallon.

Restorative Cleaning

Depending on the type of soil, stain or other foreign matter present, select one or more of the following options:

For stripping off any existing topical acrylic, urethane, epoxy, heavy wax coatings and epoxy grout haze:

- 1) Mask off and protect any baseboards or adjacent areas to avoid splashing and overspray onto surfaces not intended to be treated.
- 2) Sweep or dust mop loose dirt and debris.
- 3) For heavy, hard to remove coatings, use StoneTech Professional™ Heavy Duty Coating Stripper as is. For softer coatings, dilute Heavy Duty Coating Stripper with clean water up to a 1 to 1 solution.
- 4) Apply an even coat using a chemical-resistant paintbrush, roller or deck brush.
- 5) Allow stripper to dwell for 20 minutes to 2 hours or as long as needed to soften coating. Heavy Duty Coating Stripper will remain active for up to 24 hours.
- 6) Agitate well using a stiff nylon bristle scrub brush, stiff bristle push broom or a weighted floor machine at 130-140 lbs., 175 rpm, fitted with a scrub brush attachment.
- 7) Rinse well with clean water and mop, sponge or wet vacuum to remove the remaining cleaning solution. A hard surface extraction wand and portable or truck mounted extraction machine may be used. Repeat the rinsing and wet vacuum process to insure that all dirt, soil and cleaner residue have been removed.

For cleaning of grease, oil, dirt, dry soil and soap scum:

- 1) Mask off and protect any baseboards or adjacent areas to avoid splashing and overspray onto surfaces not intended to be treated.
- 2) Sweep or dust mop loose dirt and debris.
- 3) Strip off all topical finishes such as waxes and coatings.
- 4) Prepare a solution of StoneTech Professional™ KlenzAll™ mixed with warm or hot water as suggested below:
 - Medium Duty Usage Mix 1 part of KlenzAll™ to 4 parts of water.
 - Heavy Duty Usage — Mix 1 part KlenzAll™ to 2 parts of water.
- 5) Apply KlenzAll™ using a low-pressure chemical-resistant sprayer, sponge or mop.
- 6) Agitate well using a stiff nylon bristle scrub brush, stiff bristle push broom or a weighted floor machine at 130 lbs.-140 lbs., 175 rpm, fitted with a scrub brush attachment.
- 7) Rinse well with clean water and mop, sponge or wet vacuum to remove the remaining cleaning solution. A hard surface extraction wand and portable or truck mounted extraction machine may be used. Repeat the rinsing and

wet vacuum process to insure that all dirt, soil and cleaner residue have been removed.

- 8) To remove deep or stubborn oil stains not completely removed by KlenzAll™, let the surface dry and use StoneTech Professional™ Oil Stain Remover.
 - a) Apply a ¼ inch thick coat of Oil Stain Remover to the oil stained area. Insure that Oil Stain Remover covers an area 1" to 2" beyond the stained area for the purpose of containment.
 - b) Allow 2-3 days for the Oil Stain Remover to dry to a powder.
 - c) Sweep and wipe up dried powder and evaluate the stained area for removal.
 - d) Repeat process if needed.
 - e) Remove any remaining Oil Stain Remover using mineral spirits.

Mechanical Refinishing of Honed Limestone

For scratch, etch, wear pattern removal and to restore the surface to an even finish. Depending on the severity of the damage to the stone and/or the desired surface appearance, choose one or more of the grit levels of the StoneTech Professional™ Euro Hone™ Marble Honing Powders 180/280/400/600/800.

For refinishing to a honed finish:

- 1) Sweep or vacuum all dust, dirt and debris.
- 2) Mask off and protect any baseboards or adjacent areas to avoid splashing and overspray onto surfaces not intended to be treated.
- 3) Strip off all topical finishes such as waxes and coatings.
- 4) Liberally apply Euro Hone™ powder to the stone surface.
- 5) Add water to form a milk-like consistency.
- 6) Refinish using a hand orbital sander or weighted floor machine at 130 lbs.-140 lbs., 175 rpm, fitted with a natural hair pad.
- 7) Keep compound wet with plenty of water while refinishing. Add Euro Hone™ as needed.
- 8) Refinish area until the desired level of hone has been achieved.
- 9) Rinse well and use a wet vacuum to remove all compound.
- 10) Clean equipment with water.

Sealing & Protecting

Natural stone surfaces must be sealed to prevent or minimize staining. Leaving natural stone untreated may greatly hinder the complete removal of stains in the future. The following suggestions are for impregnating the stone and will allow the stone to breathe. Allow new installations to cure for 72 hours prior to applying sealer.

For a natural looking protector on interior and exterior surfaces (heavy duty protection, water and oil repellency):

Option 1: Heavy duty protection, water-based formula:

- 1) Sweep or vacuum all dust, dirt and debris.
- 2) Mask off and protect any baseboards or adjacent areas to avoid splashing and overspray onto surfaces not intended to be treated.
- 3) Insure that surface is clean and residue-free.
- 4) StoneTech Professional™ Heavy Duty Stone Sealer may be applied to damp surfaces one hour after standing water has been removed.
- 5) Liberally apply an even coat of sealer using a low-pressure chemical-resistant sprayer, roller or brush.
- 6) Allow sealer to penetrate the surface for 20-30 minutes. During this time, distribute excess over entire area to insure even penetration. Wipe off any remaining sealer prior to drying on the surface.
- 7) A second coat may be needed for porous, absorbent surfaces and should be applied 30-40 minutes after initial application as directed in steps 6-7.
- 8) A minimum of 30 minutes after final application, wipe entire surface with a towel. If a white residue appears dampen the towel with the sealer and agitate the surface until residue is removed. Once the residue has been completely removed wipe the surface with a clean dry towel again.



- 9) A full cure is achieved after 24–72 hours; foot traffic may begin in 6–8 hours. Cover with red rosin paper, if foot traffic must resume before the recommended time periods have passed.
- 10) Expected coverage is 700–800sq. ft. per gallon.
- 11) Re-application of Heavy Duty Stone Sealer:

- A 1–3 year re-application is needed for interior surfaces.

Option 2: Heavy duty protection, solvent-based formula:

- 1) Sweep or vacuum all dust, dirt and debris.
 - 2) Mask off and protect any baseboards or adjacent areas to avoid splashing and overspray onto surfaces not intended to be treated.
 - 3) Insure that surface is clean, dry and residue-free.
 - 4) Liberally apply an even coat of StoneTech Professional™ Impregnator Pro™ using a low-pressure solvent-resistant sprayer, roller or brush.
 - 5) Allow sealer to penetrate the surface for 15–30 minutes; denser material may require more time for sealer to penetrate. During this time, distribute excess over entire area to insure even penetration. Wipe off any remaining sealer prior to drying on the surface.
 - 6) A second coat may be needed for porous, absorbent surfaces and should be applied one hour after initial application as directed in steps 4–5.
 - 7) If sealer was not completely wiped off and a residue appears, wipe entire surface with a towel dampened with sealer. Use a white, non-abrasive nylon brush or pad to loosen residue and follow with a clean, white absorbent towel to remove.
 - 8) A full cure is achieved after 24–72 hours; foot traffic may begin in 6–8 hours. Cover with red rosin paper, if foot traffic must resume before the recommended time periods have passed.
 - 9) Expected coverage is 700–800 sq. ft. per gallon.
 - 10) Re-application of Impregnator Pro™:
- A 1–3 year re-application is needed for interior surfaces.

For a natural looking protector on exterior surfaces (heavy duty protection, water repellency only):

StoneTech Professional™ Heavy Duty Exterior Stone and Masonry Sealer is a water repellent specially designed for exterior projects such as facades, cladding, pool decks, parking areas and driveways. It is very resistant to chemicals (i.e., chlorine) and to the effects of weather (i.e., ultraviolet light/sunlight, driving water/rain).

- 1) Sweep or vacuum all dust, dirt and debris.
 - 2) Mask off and protect any baseboards or adjacent areas to avoid splashing and overspray onto surfaces not intended to be treated.
 - 3) Insure that the surface is clean, dry and residue-free.
 - 4) Liberally apply an even coat of Heavy Duty Exterior Stone and Masonry Sealer with a brush, paint roller or solvent-resistant low-pressure sprayer.
 - 5) Allow sealer to penetrate the surface for 15–30 minutes; denser material may require more time for sealer to penetrate. During this time, distribute excess over entire area to insure even penetration. Wipe off any remaining sealer prior to drying on the surface.
 - 6) A second coat may be needed for porous, absorbent surfaces and should be applied one hour after initial application as directed in steps 4–5.
 - 7) If sealer was not completely wiped off and a residue appears, wipe entire surface with a towel dampened with sealer. Use a white, non-abrasive nylon brush or pad to loosen residue and follow with a clean, white absorbent towel to remove.
 - 8) Do not walk on surface for at least 4–6 hours. Full cure is achieved in 24–72 hours.
 - 9) Expected coverage is 700–800 sq. ft. per gallon.
 - 10) Re-application of Heavy Duty Exterior Stone and Masonry Sealer:
- A 5–10 year re-application is recommended for exterior surfaces.

For a color enhancing, impregnating (non-topical) protector on interior and exterior surfaces (heavy duty protection, water and oil repellency):

- 1) Sweep or vacuum all dust, dirt and debris.
- 2) Mask off and protect any baseboards or adjacent areas to avoid splashing and overspray onto surfaces not intended to be treated.
- 3) Insure that surface is clean, dry and residue-free.
- 4) Liberally apply an even coat of StoneTech Professional™ Enhancer Pro™ using a low-pressure solvent-resistant sprayer, roller or brush.
- 5) Allow to penetrate the surface for 15–30 minutes; denser material may require more time for Enhancer Pro™ to penetrate. During this time, distribute

excess over entire area to insure even penetration. Completely wipe surface dry. **DO NOT ALLOW ENHANCER PRO™ TO DRY COMPLETELY ON SURFACE!** Failure to remove enhancer from the surface may result in a film or residue that may need to be mechanically removed.

- 6) A second coat may be needed for porous, absorbent surfaces or if a darker appearance is required and should be applied one hour after initial application as directed in steps 4–5.
 - 7) A full cure is achieved after 24–72 hours; foot traffic may begin in 6–8 hours. Cover with red rosin paper, if foot traffic must resume before the recommended time periods have passed.
 - 8) Expected coverage is 700–800 sq. ft. per gallon.
 - 9) Re-application of Enhancer Pro™:
- A 3–5 year re-application is needed for interior or exterior surfaces.

For a color enhancing, impregnating (non-topical) protector on interior surfaces (economical protection, water and oil repellency):

- 1) Sweep or vacuum all dust, dirt and debris.
 - 2) Mask off and protect any baseboards or adjacent areas to avoid splashing and overspray onto surfaces not intended to be treated.
 - 3) Insure that surface is clean, dry and residue-free.
 - 4) Liberally apply an even coat of StoneTech Professional™ Stone Enhancer using a low-pressure chemical-resistant sprayer, roller or brush.
 - 5) Allow to penetrate the surface for 15–30 minutes; denser material may require maximum time for enhancer to penetrate. During this time, distribute excess over entire area to insure even penetration. Completely wipe surface dry. **DO NOT ALLOW STONE ENHANCER TO DRY COMPLETELY ON SURFACE!**
 - 6) A second coat may be needed for porous, absorbent surfaces or if a darker appearance is required and should be applied one hour after initial application as directed in steps 4–5.
 - 7) A full cure is achieved after 24–72 hours; foot traffic may begin in 6–8 hours. Cover with red rosin paper, if foot traffic must resume before the recommended time periods have passed.
 - 8) Expected coverage is 700–800 sq. ft. per gallon.
 - 9) Re-application of Stone Enhancer:
- A 3–5 year re-application is needed for interior surfaces.

Maintenance Cleaning

Highly alkaline, acidic, ammoniated, abrasive cleaners and/or bleach may break down the sealer, adversely affecting repellency and may not be good for the stone. Use a neutral cleaner specially formulated for natural stone.

For routine cleaning with protection:

- 1) Sweep or dust mop loose dirt and debris.
- 2) Prepare a solution of StoneTech Professional™ Revitalizer™ concentrate mixed with warm or hot water as suggested below:
 - Light Duty Usage — 1 part Revitalizer™ to 4 parts water.
 - Medium Duty Usage/Spray Refill — 1 part Revitalizer™ to 1 part water. (One gallon of concentrate makes up to five gallons of ready-to-use solution.)
- 3) Apply the Revitalizer™ solution using a low-pressure chemical-resistant sprayer, mop, sponge or automatic scrubbing machine.
- 4) No rinsing needed.
- 5) Or use Revitalizer™ in a ready-to-use sprayer or wipes.

For routine maintenance cleaning:

- 1) Sweep or dust mop loose dirt and debris.
- 2) Prepare a solution of StoneTech Professional™ All Purpose Stone and Tile Cleaner concentrate mixed with warm or hot water as suggested below:
 - 2 ounces All Purpose Stone and Tile Cleaner in 1 gallon of water. (Do not mix stronger than 2 ounces to a gallon as a maintenance cleaner. One gallon of concentrate makes 65 gallons of cleaning solution.)
- 3) Apply the solution using a sponge, mop or automatic scrubbing machine, then wipe or rinse off.
- 4) Or use All Purpose Stone and Tile Cleaner in a ready-to-use sprayer or wipes.

