



# **LATICRETE SpectraLOCK PRO Grout Installation & Maintenance Guide TDS 400 PRO**

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## **Table of Contents**

### **INTRODUCTION**

### **SECTION 1: GROUT COLOR SELECTION**

### **SECTION 2: GROUT COVERAGE**

### **SECTION 3: CRITERIA FOR FINISHED GROUT APPEARANCE**

### **SECTION 4: INSTALLATION & MAINTENANCE PROCEDURES**

- A. Storage
- B. Prior to Grouting
- C. Mixing
- D. Installation
- E. Cleaning
- F. Special Applications
- G. Removal
- H. Maintenance
- I. Time to Service

## **LATICRETE® Grout Selection and Maintenance Guide**

### **Introduction**

Grout, when properly installed, will enhance the final appearance and performance of any tile, paver, stone, or brick installation. The LATICRETE International Technical Service Dept. offers this LATICRETE® SpectraLOCK® PRO Grout Installation & Maintenance Guide to insure that the project specifier is given enough information to make the best possible decision about the selection, installation and maintenance of grout.

Please refer to this guide prior to beginning any tile installation - ideally while you are in the project design phase. This guide offers general information to facilitate the many steps or decisions that must be made regarding grout type, installation and long-term maintenance.

### **SECTION 1:**

#### **Selection of LATICRETE Grout Colors:**

The LATICRETE® System offers readily available, factory prepared grout in a wide range of colors.

This array of colored grouts offers unlimited design freedom. Room function, exposure to chemicals, soiling, or moisture must be taken into account when selecting grout colors. Please note the following points about colored grout:

1. Printed samples of grout colors are made as accurate as possible. The LATICRETE Grout Color Card depicts colors representative of LATICRETE 1500 Sanded Grout & LATICRETE 1600 Unsanded Grout that are mixed with LATICRETE 1776 Grout Enhancer, as well as LATICRETE PermaColor Grout and LATICRETE SpectraLOCK PRO Grout. **IMPORTANT NOTE:** Color samples are printed reproductions, and should only be used as approximate guides to appearance. Actual shade and texture will depend on jobsite conditions, installation technique, tile characteristics, lighting and other factors beyond grout/sealant manufacturer's control. Verify appearance with a test area before main installation commences. See Grout Color Chart for color applicable to each type of grout.
2. White or lightly colored grout joints show soil readily. For example, commercial kitchen joints that are wide and white will appear to be dirty in a shorter period of time than a narrow or darker joint would.
3. Neutral gray, dark gray or medium colored grouts are less likely to show soil than will a light colored grout.
4. Dark joints in a shower or exterior may show water deposits and/or the natural occurrence of efflorescence more readily than a lighter colored joint.
5. For maximum color consistency always use grout with the same control/lot number. Grout colors may vary due to jobsite conditions (e.g. temperature, cure rate, moisture content, etc).
6. Some grout pigment can stain the surface of certain types of tile, etc. A grout release, tile sealer or paraffin wax applied to the top of these types of tiles prior to grout installation, may reduce staining problems. Verify compatibility with a test area.

### **SECTION 2:**

#### **LATICRETE Grout Coverage:**

1. Coverage of LATICRETE grout products is available by referencing Data Sheet 254.3, the LATICRETE Grout packaging coverage chart, or the LATICRETE Grout Coverage Calculator located at [www.laticrete.com/coverage](http://www.laticrete.com/coverage).
2. Coverage may vary considerably when grout joint width varies or when cushion-edge or wave-edge tile are specified. When several tiles are used to create an overall pattern, grout width will be predetermined by any mounted tile.
3. It is customary to provide extra grout (typically 10% extra) to allow for jobsite waste. Additional grout should be provided to the building owner for future use.

### **SECTION 3:**

#### **Criteria for Finished Grout Appearance:**

The following criteria should be used to judge the final grout installation. Finished joints must be:

1. Uniform in color, no "show through" of setting/fixing materials
2. Compacted and cured to maximum hardness (not powdery)
3. Smooth and evenly filled

4. Without voids or pinholes
5. Grout can be finished to near level of tile surfaces (except with the installation of cushioned edge tile where requirement is to depth of cushion, and epoxy grouts, where slight depression is accepted by the industry)
6. Grout should not be higher than the tile surface
7. No grout or grout haze should remain on surface of tile, etc...
8. Contact and adhesion by the grout to each tile is crucial for both long-term performance and maintenance

#### **SECTION 4: Part A**

##### **LATICRETE® SpectraLOCK® PRO GROUT – Installation Procedures**

###### **Storage:**

1. Store materials at room temperature 70°F (21°C). To facilitate installation, mix and apply material at room temperature 70°F (21°C).
2. Cold floor temperatures or cold liquids will impair workability. If liquids are cold, separated, or crystallized, immerse the sealed containers in hot tap water until they become clear of any crystals and do not separate after shaking.  
**Do not install LATICRETE SpectraLOCK PRO Grout when surface temperatures are above 95°F (35°C) or below 40°F (5°C)**

#### **SECTION 4: Part B**

##### **LATICRETE SpectraLOCK PRO GROUT – Installation Procedures**

###### **Prior To Grouting:**

1. **Read ALL instructions BEFORE proceeding. Follow directions as written.**
2. Use plenty of thin-set and beat tile/stone in properly; leave no ridges or voids beneath tile/stone for grout to flow into. Allow tile installation to set hard before grouting.
3. Before starting to grout, remove debris in grout joints and lightly sponge the tile surface to remove dust and dirt. Do not use acid. Do not leave standing water in joints.
4. Follow temperature guidelines as stated in Section 5, Part A.
5. Check to insure that multiple boxes / bags of Part “C” Filler Powder are all the same batch number. Minor shade variations may occur from batch to batch.  
Manufacturer is not responsible for different batches being used on same job.

###### **PROPER TOOLS REQUIRED**

1. Clean bucket (provided with each full unit) and a clean margin trowel for mixing.
2. Hard rubber epoxy float (e.g. Walton GK1) is a must for quarry tile. Standard grout floats may be used for glazed tile (particularly cushion-edge tile).
3. White scrub pad for initial and secondary cleaning of LATICRETE® SpectraLOCK PRO Grout.

#### **SECTION 4: Part C**

##### **LATICRETE® SpectraLOCK® PRO GROUT – Installation Procedures**

###### **Mixing of LATICRETE SpectraLOCK PRO GROUT:**

1. Thoroughly stir contents of “A” hardener and “B” resin bags.
2. Blend entire contents of “A” and “B” liquids thoroughly with clean mixing stick or margin trowel in the clean bucket provided, for one minute.
- 3 Mix in all Part C powder provided. For easier workability or narrow joints, use 10-15% less powder.
4. Mix by hand with margin trowel or use a slow speed (less than 150 RPM) electric drill mixer until uniform (approximately 3 minutes).
5. Bubbling in the mix indicates an excessively loose mix and more filler powder should be added to reduce bubbling.

**Do Not Over mix. Over mixing Can Cause Air Bubbles In Grout Joints.**

**See Data Sheet 685.5 for complete installation instructions for LATICRETE SpectraLOCK PRO Grout**

#### **SECTION 4: Part D**

##### ***LATICRETE® SpectraLOCK® PRO Grout – Installation Procedures***

###### ***Grouting Floors With LATICRETE SpectraLOCK PRO Grout:***

1. Use standard grouting techniques to work LATICRETE SpectraLOCK PRO Grout into grout joints.
2. BE SURE ALL JOINTS ARE FULLY PACKED!
3. To ease cleanup, use rubber float at 90° angle to remove as much excess material as soon as possible before initial cleaning with sponge. Wait 20-30 minutes after grouting to allow grout to settle and firm slightly.

**Do Not Leave Excess Grout On The Face Of Tiles**

###### ***Grouting Walls With LATICRETE SpectraLOCK PRO Grout:***

1. Use standard grouting techniques to work LATICRETE SpectraLOCK PRO Grout into grout joints.
2. If grout sags out of joints during installation, stop immediately and wait an additional 15 minutes for grout to firm up in bucket. You may also add more Part C filler powder if any was held back.
3. BE SURE ALL JOINTS ARE FULLY PACKED!
4. To ease cleanup, use an epoxy grout float or a standard rubber grout float at a 90° angle to remove as much excess material as possible before initial cleaning with sponge. Wait 20 – 30 minutes after grouting to allow grout to settle and firm slightly.

#### **SECTION 4: Part E**

##### ***LATICRETE SpectraLOCK PRO Grout – Installation Procedures***

###### ***Installation Clean-Up of LATICRETE SpectraLOCK PRO GROUT:***

1. Begin cutting excess grout off tiles, cleaning grout haze 20 – 30 minutes after grouting an area. Use clean water and a damp sponge. Wipe the tile surface in a light circular motion to loosen grout residue and to smooth out the joints. HINT: Using 1 packet of LATICRETE Cleaning Additive mixed with two gallons clean water will help reduce grout haze residue and prevent sponge from becoming gummed up. Certain tiles clean up more easily than others, so be sure to rinse sponge frequently, checking your work as you progress. Change water and cleaning solution after cleaning every 50 ft<sup>2</sup> of tile when using multiple units.
2. For vertical joints, if grout sags or runs out of joints during cleanup it may be advisable to use a well wrung folded, white terry cloth towel to remove excess grout while smoothing the joints. Make sure that light pressure is used. Rinse towel frequently and change water and cleaning additive every 50 ft<sup>2</sup>.
3. Begin final cleaning of all areas grouted approximately one hour after initial wash to ensure no grout haze or contaminants (ex. footprints) exist on the tile surface. A solution of 2 gallons of clean water and packet of LATICRETE Cleaning Additive is recommended to completely remove any residual grout film/haze. Using a well wrung, clean white scrub pad, clean entire tile surface with a light circular motion. Rinse scrub pad frequently. Change water and cleaning solution every 50 ft<sup>2</sup>.
4. Next, using a new sponge and clean water, pull across tile to pick up any remaining residue. Rinse the sponge after every pass; USE EACH SIDE ONLY ONCE. Allow installation to dry and inspect for any areas where residual haze remains. If haze is present, repeat step 2 immediately. LATICRETE SpectraLOCK PRO Grout haze that is allowed to cure on the tile surface may be difficult to remove. Make certain to check the tile surface with adequate lighting after the surface has dried.

**Maximum stain resistance is achieved after 7 days @ 70°F (21°C).**

#### **SECTION 4: Part F**

##### ***LATICRETE SpectraLOCK PRO Grout – Installation Procedures***

###### ***Removal Of LATICRETE SpectraLOCK PRO GROUT haze:***

- For grout haze that is less than 48 hours old use straight white vinegar and a white terry cloth towel. Apply white vinegar to terry cloth towel, apply to affected areas and allow to dwell for 5 – 10 minutes. Scrub areas with towel and rinse with clean water and sponge. Repeat as needed for areas with heavy haze.

Note: Do a test area in an inconspicuous area to confirm results before proceeding. Be careful when using vinegar in conjunction with polished marble or similar stone. Do a test area to confirm results.

- For LATICRETE® SpectraLOCK® PRO Grout haze that is older than 48 hours try either of the following procedures;
  1. Use 1/4 cup (0.059 Liters) electric dishwasher detergent (e.g. Cascade, Electrosol, etc...). per 3.5 gallons (13.2 Liters) pail of water. Liberally apply the dishwasher detergent / water solution to the surface with a mop. Then broadcast silica sand or LATICRETE SpectraLOCK Grout powder over the floor. Use a buffing machine with a white scrub pad and make several passes over the floor. Next, vacuum up the solution and sand with a wet vac. Rinse well with clean water. Repeat process as required. Do a test area to confirm results.

2. Contact any of the following manufacturer's for their product recommendation for removing epoxy grout haze;

- The Miracle Company - 1-800-350-1901
- StoneTech Professionals– 1-888-786-6343
- Walter Legge Company – 1-800-345-3443

Mask off the work area to protect adjacent finished surfaces.

## **SECTION 4: Part G**

### ***LATICRETE SpectraLOCK PRO GROUT – Installation Procedures***

#### ***Removal Of LATICRETE SpectraLOCK PRO GROUT from grout joint:***

For all removal methods, always:

1. Protect/mask off carpeting, woodwork and other finishes near the work area;
2. Verify results first with a small test area in an inconspicuous area;
3. Remove at least ½ the depth of the existing grout joint prior to re-grouting;
4. Provide effective ventilation

#### **Mechanical Removal**

This method is fast; but great care must be taken to avoid damage to tile surface and edges. Use small circular or right angle saws with diamond cutting blades equipped with dustless vacuum systems. The vacuum system will minimize the amount of airborne dust. This system can be used in occupied structures. Proper re-grouting depth is approximately ½ the depth of the existing joints.

#### **Chemical Removal**

1. Apply nonflammable, water cleanable, gel type Paint and Epoxy remover directly to grout joints. Be absolutely certain to follow manufacturer's safety precautions & warning instructions on the label. **ROOM MUST BE WELL VENTILATED!** Do a small test area to confirm results prior to doing the entire installation.
2. Allow remover to remain on the grout joints as long as necessary to remove epoxy (usually 30 minutes to 2 hours).
3. Using a narrow brass or wire brush (NOTE: wire brush may scratch some types of tile, test before using), rake out joints (minimum ½ depth of the grout joint).
4. Wash with a solution of Spic & Span, tri-sodium phosphate (TSP) or machine dishwasher detergent (1/2-cup detergent in 2 qt. of warm water) to completely neutralize the paint remover.

**Warning:** Detergent solutions require eye protection and gloves.

5. Remove any and all loose or free epoxy from the grout joints. A wet/dry vacuum works best for this procedure. Rinse with clean water. Remove all excess water from joints with wet/dry vacuum, sponge or dry cloth and allow joints to dry completely.

6. Sweep joints again with stiff dry brush to remove all residue.

#### **Heat Gun Removal**

This method is well suited for “spot” (singular) tile repairs. Use a High Power Industrial Heat Gun (1200 Watt, 500°F). These devices will soften the cured grout and enable it to be scraped out. **DO NOT USE TORCHES.** Do a test patch to verify results. The heat gun method requires patience. Finished surfaces need to be protected from the heat. Also, the heat gun may damage some soft glazed tiles. This method may produce some odor so adequate ventilation is required.

## **SECTION 5: Part H**

### **LATICRETE® SpectraLOCK™ PRO Grout – Installation Procedures**

#### **LATICRETE SpectraLOCK PRO GROUT Maintenance Guide:**

##### **1. ADVANTAGES OF: LATICRETE SpectraLOCK PRO Grout**

- Stain and soil resistant
- Stays uniformly colorfast over time
- Does not need to be sealed and resealed
- Resists exposure to most acids, alkalis and many chemicals
- Will not peel, crack or pulverize
- High strength

LATICRETE SpectraLOCK PRO GROUT is extremely low in absorption (<.5%). Liquids will not penetrate the surface of these grouts due to the low absorption rate. Dirty SpectraLOCK PRO Grout can always be cleaned down to the original color - not so with Portland cement based grouts, latex modified Portland cement grouts or modified epoxy grouts. Stains become part of Portland cement-based grouts. Protect grouted areas from traffic and other trades for at least 24 hours after installation or until the grout is hard and no longer tacky. For areas that must have traffic during curing time, cover installation with plastic sheeting and plywood or other temporary load bearing course. Protect grout from dirt and dust for 72 hours at 70°F/21°C. Please note that temperatures lower than 70°F (21°C) will require protection from traffic for a longer period of time. LATICRETE SpectraLOCK PRO Grout reaches maximum hardness in 14 days and maximum stain resistance in 7 days @ 70°F (21°C)

##### **2. ROUTINE MAINTENANCE**

LATICRETE SpectraLOCK PRO Grout is stain resistant when properly installed and allowed to cure properly. It is, unfortunately, not self-cleaning. Routine maintenance can be done with detergents and a sponge or mop. For tough or difficult to remove soil, a bleaching cleaner (e.g. Soft Scrub, Comet, Ajax, etc. or electric dishwashing detergent) on a nylon scrubbing pad or a long handled stiff bristle brush can be used. Please note: Prior to using any cleaning material on a tile, etc. installation, test a discrete area or scrap piece of tile to insure desired results.

##### **3. RECOMMENDED CLEANING PROCEDURE / REGIMEN - FLOORS:**

###### **RECOMMENDED DAY TIME MAINTENANCE CLEANING PROCEDURE**

- STEP 1: Sweep or vacuum the floor of all loose dirt and other foreign materials. All spills should be cleaned as quickly as possible.
- STEP 2: Damp mop floors with clean hot water. Change the water often. Do not clean more than one toilet room per mop bucket. Dirty mop water will only apply more dirt to the surface of the floor.
- STEP 2A: If floors are heavily soiled mop with a solution of hot water and diluted cleaning agent. Once heavily soiled areas have been cleaned, mop a second time with a clean hot water to rinse and remove any remaining cleaning solutions.

Use only the recommended dilution of detergent. More is not always better. Higher concentrations of detergent in the cleaning solution will only make it more difficult to rinse.

Note: Any remaining cleaning agent will attract dirt to the floor.

- STEP 4: Dry floors as quickly as possible using a dry mop, flat mop, or high pressure fan, dry wet floors before allowing customer traffic onto tile.

###### **RECOMMENDED NIGHT TIME DEEP CLEANING PROCEDURE**

- STEP 1: Sweep or vacuum the floor of all loose dirt and other foreign materials.
- STEP 2: Saturate the floor with a neutral pH cleaning solution and hot water. Agitate with a deck broom, scrub brush, or floor machine equipped with nylon pad. For small areas, use a hand brush or nylon pad. Allow cleaning solution to remain on the floor 5 to 10 minutes.
- STEP 3: Remove the dirt and cleaning solution and rinse the surface with clean clear hot water. Use a squeegee mop or a wet vacuum. Newer stores are equipped with a hose bib and additional floor drains for rinsing the floor. Older stores may need to use a wet vacuum or similar extraction machine. If using a rinse and squeegee, push all remaining rinse water into floor drains. It may be necessary to rinse the tile several times to thoroughly remove the cleaning agent from the surface. If using a vacuum, rinse with hot water and extract until all dirt and cleaning agent has been extracted.

Note: Any remaining cleaning agent will attract dirt to the floor.

- STEP 4: Using a dry mop, flat mop, or high pressure fan, dry wet floors before allowing customer traffic onto tile.

### **DO NOT**

Apply wax to tile.

Apply sealers to floor.

### **ADDITIONAL CLEANING PROCEDURES – RECOMMENDED AS WEEKLY**

In some cases the tile installer may not have removed the entire grout residue off to the tile during installation. This residue will attract dirt and keep it from releasing from the surface of the tile.

If tile does not come clean with standard mopping or a nylon scrub pad and standard cleaning agent use the following procedure.

Apply a liberal amount of Soft Scrub with Bleach cleanser to the floor. Spread the Soft Scrub evenly over tile and let remain for 5 to 10 minutes.

After allowing the Soft Scrub to remain on the floor, use the floor buffing machine with an abrasive nylon pad to scrub the floor tile in small sections.

For areas around the cove base and toilet partitions hand scrubbing will be required. Rinse with clean hot water extract from floor. Repeat as necessary until no dirt haze remains on tile.

The soft scrub cleanser residue may be difficult to remove from the grout joints and low lying areas several rinses may be required.

Use caution to not get the Soft Scrub on the stainless partitions and fixtures. The chlorine may damage the surface of the finish.

The same procedure may be used for the walls using a hand held nylon scrub pad. Once the remaining grout residue on tile has been removed the standard day time and night time cleaning procedures may be utilized.

### ***SECTION 4: Part I***

#### ***LATICRETE SpectraLOCK PRO Grout – Installation Procedures***

#### ***LATICRETE SpectraLOCK PRO Grout TIME TO SERVICE @ 70°F (21°C)***

Working Time: 80 Minutes

Tack Free: 4 Hours

Ready for Light Foot Traffic: 12 hours

Ready for Heavy Foot Traffic: 24 hours

Stain Resistance, Food Spills, and Household Cleaners: 7 days

Full Cure: 14 days

**Notes:**

- The temperature of the surface determines the working and cure time of all grouts.
- Concrete floors on grade may be substantially cooler than room temperature.

Technical Data Sheets are subject to change without notice. For latest revision, check our website at [www.laticrete.com](http://www.laticrete.com)  
TDS 400PRO Draft.doc R 9 October 2009



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