



- ACRYLIC SHIELD 25 VOC
- STAIN: POLYMER MODIFIED WATER BASED STAINS
- TEXTURE COAT (TEXTURE MIX + HD RESIN + MINERAL PIGMENT)
- GROUT COAT (TEXTURE MIX + HD RESIN + MINERAL PIGMENT).  
STENCIL/DESIGN TAPE APPLIED WHEN DRY
- CONCRETE SUBSTRATE

## DESCRIPTION

The Grand Flagstone system is designed to simulate the look of large, irregular flagstone — like the natural stone used in classic patios and pathways — but as a concrete overlay rather than actual stone. The method involves applying a cementitious overlay over existing concrete, then troweling a “venetian stone texture,” forming large slab-like patterns, and finishing with layered “antiquing” (color / shading / highlighting) to mimic natural stone. Finishing with Acrylic Shield 25 VOC sealer, this system is designed for outdoor installations and is resistant to moisture damage.

## PHYSICAL PROPERTIES TABLE

PROPERTY	VALUE
TEMPERATURE APPLICATION	55F-90F
COMPRESSIVE STRENGTH	6100 PSI 28 day 3750 PSI 7 day
ADHESION	>400 PSI
HARDNESS	Shore D= 70-80
TENSILE STRENGTH	890 PSI 28 day 560 PSI 7 day
VOC	<40/gal
ELONGATION	3%
ABRASION RESISTANCE	N/A

## TYPICAL APPLICATIONS

- POOL DECKS
- DRIVEWAYS
- PATIO AND PORCHES
- SIDEWALKS
- OUTDOOR KITCHENS
- EXTERIOR ENTERTAINMENT AREAS

## PRODUCTS

PRODUCT NAME	SKU	COVERAGE RATE	WET MIL	TEMP	DRY TIME	RECOAT	MIX RATIO	PACKAGING
QUICK PATCH	SI-1652	Refer to Repair Coverage Chart	N/A	30F-100F	2-10 Minutes	10-30 Minutes	1 part of Part A to 1 part of Part B, Optional Thickener	2 Gallon Kit
DECORATIVE TEXTURE MIX	DM-3913	150-250 sq. ft. per bag	1/16" - 1/8"	55F-90F	1-6 Hours	1-12 Hours	7-9 quarts of "RTU" resin per bag of texture	50 lbs Bag
HIGH DENSITY RESIN	DM-5406	N/A	N/A	55F-90F	N/A	N/A	1 part resin to 1 part water	1 Gallon Concentrate, 5 Gallon Concentrate
MINERAL PIGMENT	DC-2022-DC-2099	N/A	N/A	55F-90F	N/A	N/A	1-7 oz. per bag of texture	1 Quart Bottle
SMITHS STAIN	DS-9202-DS-9270	800-1,200 sq. ft. per gallon of diluted stain	< 1 Mil	55F-90F	15-20 Minutes	0-24 Hours	4 parts water to 1 part stain	1 Quart Bottle
ACRYLIC SHIELD 25 VOC	SE-2803	140-200 sq. ft. per gallon	N/A	55F-90F	1-3 Hours	1-24 Hours	N/A	5 Gallon

# APPLICATION TOOLS

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- TP-7517 & TP-7521 Stencil Tape
- TP-7507 2" Green Specialty Tape
- TL-7235 Mixing Tarps
- MX-3253 Drill Mixing Stand
- MX-3251 Hand Held Mixer
- MX-3245 Mixing Paddle
- RL-4329 ¾" Nap 9" Jumbo Roller Cover
- RL-4331 HD 9" Jumbo Frame
- TL-7361 thru TL-7365 Assorted Mixing Containers & Cups
- TL-7393 Threaded Roller Poles
- RL-4343 2" Chip Brushes
- TL-7107 16" Stand Up Metal Scraper
- TL-7103 18" Magic Trowel
- Metal Hand Trowel
- 5 Gallon Mixing Buckets
- Pump-Sprayer
- Masking Paper and Plastic
- 3" Paint Brush



## MAINTENANCE

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To preserve the appearance and prolong the life of a newly sealed surface implementing a regular maintenance program is essential. Dirt and debris tracked onto the surface can quickly scratch and dull the finish. Sweep or mop/scrub floors routinely using soft bristles with a mild cleaning solution. Be aware that certain cleaners, equipment, or improper use can damage the surface. Clean up spills promptly to prevent stains or damage.

## SURFACE PREPARATION

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New / Bare Concrete: Acid etching, shot blasting, or diamond grinding are acceptable methods of prep for an exterior Grand Flagstone application. New concrete must be cured for at least 28 days.

Previously Coated Surfaces: Thoroughly clean the surface to ensure that contaminants are not transferred to other areas during preparation. Remove all existing coatings or sealers using diamond grinding, followed by acid etching.

## SET UP AND MIXING AREA

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Set up the mixing station as close to the work area as possible. Lay down a tarp over the floor and tape it securely in place. Before beginning the application, organize all required tools, safety gear, PPE, and clean-up materials within the mixing area so everything is ready and accessible.

Tape and Termination Points: Mask off all perimeter edges where the coating system will end. Create saw cuts and key-in joints at all termination areas including high-traffic or impact zones.

## PATCHING

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Fill any cracks, holes, or damaged/spalled sections of the floor using:

Rigid Repairs - Quick Patch

Working Time = 1-5 min.

- Set up mix station
- Pre-mix Part A and Part B by shaking the jugs vigorously
- Mix together vigorously (1 Part A to 1 Part B)
- (Optional) Add desired amount of CP Texture Mix (1-3 parts), mix vigorously for 20 sec.
- Pour into spalling, cracks, holes, pops, and chips to overflowing
- Let dry
- Using a 4'-7" grinder, grind the repair to an even, flush surface

# JOINTS

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When applying decorative coatings or overlays to exterior concrete, it is essential to honor existing control joints to prevent unwanted cracking and ensure long-term performance. Control joints are designed to manage the natural movement of concrete caused by temperature changes, moisture, and structural settling. Before application, all control joints should be located, cleaned, and properly marked. During the installation process, coatings or overlays should not bridge over or fill these joints. Instead, the installer should recreate or cut the joints through the new surface directly above the original control joints once the material has cured to the proper hardness. This allows the joint to continue functioning as intended.

# GHOSTING

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To prevent ghosting (unwanted dark lines or patterns that appear through coatings or overlays) when performing extensive repairs, broadcast sand into the first coat of texture and "dust" with texture spray. Then apply an additional coat of texture to create a uniform surface and reduce visible repair lines.

# TEMPERATURE CONSIDERATIONS

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Keep ambient and substrate temps above 50°F (at least 5°F above dew point). Product temperatures during use are maintained at 70–80°F. Relative humidity should not exceed 80%.

# HIGH DENSITY RESIN

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HD Resin is supplied in 1-gallon or 5-gallon buckets. It is provided as a concentrated formula and must be diluted to create a ready-to-use (RTU) solution before application.

## Mixing

- 1) Pour half of a five gallon of HD Resin concentrate into another empty five gallon bucket
- 2) Fill both five gallon buckets the rest of the way with water (Make sure to use cool water)
- 3) Mix until blended

# GROUT COAT

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## Mixing

1. Measure out 7-9 quarts of RTU Resin and add the desired amount of mineral pigment (refer to the Cementitious Color Chart)
2. Mix until blended
3. Add 1 bag of Decorative Texture Mix
4. Mix for 3 minutes.

## Application

Working Time= 30 minutes

1. Using a magic trowel, pour a ribbon of texture onto the floor and trowel from one side to the other side. When applying grout at the recommended square footage, when it is dry, it should feel like sandpaper. DO NOT apply too thick (trying to create "build") with this coat. This material is NOT meant to fill or be applied thick.
2. Let dry
3. Using a 16" metal stand up scraper, address imperfections in the grout coat such as texture crumbs, etc...
4. Leaf blow and/or vacuum surface, removing dirt and debris Do not roll the vacuum across the floor, it may leave marks. Pick up the vacuum, set it down and repeat this process.
5. Proceed to Tape Design. Wait until the grout coat is completely dry before attempting to design your wood planks with stencil tape

# TAPE DESIGN

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1. Determine the size and general shapes to be taped and desired starting location. The tape design will be the "grout" of the design.
2. Create the first stone and build each stone consecutively from this first stone, stopping occasionally to check the consistency of the size and shape of the stones.
3. Using ½" filament or fiber tape, create a flagstone pattern by pulling the tape from the roll with one hand and guiding it with your other hand to create organic shapes.
4. Curve it gently— not making sharp angles unless intentionally creating corners.
5. Using 1/2" filament or fiber tape, overlap the ½", which has already been applied, moving the tape back and forth overlapping the existing tape. This creates uneven grout lines, which is a characteristic of natural stone. This process can be done multiple times depending on the size of grout line desired.
6. Using small pieces of filament or fiber tape, round out any corners or joints on stones which appear too pointed or sharp.
7. Make sure the tape is adhered well enough to the surface to avoid product bleeding during the next step. (Walking along each tape line is a good method of tacking down the tape)
8. Proceed to Texture Coat

# TEXTURE COAT

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## Mixing

1. Measure out 7-9 quarts of RTU Resin and add the desired amount of mineral pigment (refer to the Cementitious Color Chart)
2. Mix until blended
3. Add 1 bag of Decorative Texture Mix
4. Mix for 3-5 minutes.

## Application

Working Time= 30 minutes

1. Using a cup or container, pour a puddle of texture onto the dry grout coat in a workable, reachable area
2. Using a metal hand trowel, spread the puddles of texture over the area evenly to where you can lightly see the tape below. After spreading, use short, random strokes, changing directions to create texture. Don't move the trowel in a "windshield wiper" type of motion (you will be able to see all of the texture moving in the same pattern/direction). If multiple people are troweling on the project, switch back and forth with each other every few minutes (everyone has their own unique troweling technique and if you stay on one side of the slab while someone else is always on the other side, you will be able to see a distinct texture difference between the two areas)
3. Let Dry
4. Using a 16" metal stand up scraper, address imperfections in the texture coat such as texture crumbs, etc...
5. Leaf blow and/or vacuum surface, removing dirt and debris, Do not roll the vacuum across the floor, it may leave marks. Pick up the vacuum, set it down and repeat this process.
6. Pull tape design. (When removing tape, apply pressure in the opposite direction of which way the tape is pulling. This prevents tape tearing and the chipping of texture.)
7. Leaf blow and/or vacuum surface, removing dirt and debris, Do not roll the vacuum across the floor, it may leave marks. Pick up the vacuum, set it down and repeat this process.
8. Proceed to Staining

# STAINING

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Hand staining with brushes or sponges gives a natural look.

## Mixing

### Smiths Stains

1. Shake bottle to premix
2. Combine stain and desired amount of water (3-4 parts water to 1 part stain)
3. Stir

### Natural Mineral Stains

1. Combine 3 parts of water with 1 part of RTU Resin
2. Stir until blended
3. Add desired color combination from chart

## Application

### Pump-Up Sprayers

Using a pump-up sprayer is an effective method to stain a Grand Flagstone project.

1. Fill a pump-up sprayer with stain. (Straining the stain can prevent clogs in the nozzle during application) For natural looking coloring, blend earth tones with greys.
2. Hold the sprayer about 12-18 inches from the surface
3. Apply the stain to the entire area in a circular or overlapping motion to avoid streaks and create a natural, variegated look
4. Let dry
5. If a darker look is desired, repeat the steps above

### Hand Staining Highlights (optional)

This method allows for handcrafted, unique finishes with depth and variation. A beneficial tip in hand staining a Grand Flagstone project is to focus on individual stones. Different shades can be used on different stones as well as different colored highlights.

1. Using the appropriate size of brush, apply the stain on each stone from grout line to grout line, EXCLUDING the grout line
2. Run the brush the entire length of the stone from side to side in one smooth motion to remove any unwanted brush strokes.
3. If desired, add highlights with a brush, sponge, or cloth. This can be done during the initial staining (wet on wet) or can be delayed until the first coat of stain is dry (wet on dry), which will result in more distinct layers with deeper, more defined highlights.
4. Then proceed with pump up spraying

## 1ST SEAL COAT

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1. Stir Acrylic 25 VOC before using
2. Apply sealer using a 9" 3/4" nap jumbo roller using long even uniform strokes (Maintain a wet edge by rolling on wet edge)
3. Do not allow to puddle
4. Let dry
5. Proceed to second seal coat

## 2ND SEAL COAT

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1. Stir Acrylic 25 VOC before using
2. Apply sealer using a 9" 3/4" nap jumbo roller using long even uniform strokes (Do not allow to puddle)
3. Do not allow to puddle
4. Let dry

## CLEAN-UP & DISPOSAL

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CLEAN UP: Clean all tools and equipment used in the cementitious application with water as needed. Clean all tools and equipment used in the sealing process with acetone, observing all health and safety precautions when using or storing solvents.

WASTE DISPOSAL: Waste management should be in full compliance with federal, state, and local laws.

## DISCLAIMER

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# LINKS

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QUICK PATCH PART A SDS

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**QUICK PATCH PART B SDS**

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QUICK PATCH TDS

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DECORATIVE TEXTURE MIX SDS

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"HIGH DENSITY RESIN SDS

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SMITH'S STAINS TDS

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SMITH'S STAINS SDS

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ACRYLIC SHIELD 25 TDS

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ACRYLIC SHIELD 25 SDS

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