

SYSTEM BULLETIN



POLYACRYLATE TERRAZZO #801

Product Description

General Polymers POLYACRYLATE TERRAZZO #801 is a specially formulated combination of acrylic polymer and modifiers used with cement and inert aggregates in combination with marble chips in a troweled mortar system. POLYACRYLATE TERRAZZO #801 is applied at 3/8" and then ground and polished to reveal the natural beauty of the aggregates to provide a decorative hard surface for interior or exterior use.

Advantages

- Aesthetically pleasing appearance
- Short installation time
- Durable and wear resistant
- Chemical and stain resistant
- -0- VOC
- Meets and/or exceeds all NTMA and TTMAC standards
- Designed for easy to clean and smooth surfaces

Uses

- Commercial, Retail and Institutional facilities
- Health Care, Research and Pharmaceuticals
- Exterior promenades and decks

System Specification

POLYACRYLATE TERRAZZO #801 FLOORING SYSTEM consists of 4772 Polyacrylate Blending Polymer with cement as primer and binder resin, marble or granite chips, 5270 filler, 4772 Polyacrylate Blending Polymer with cement as grout and 4540 Acrylic Sealer as the seal coat or 4401 Terrazzo Wet Look Sealer.

Typical Physical Properties

Color	White or Gray Cement
Compressive Strength ASTM C 579	4,600 psi
Tensile Strength ASTM C 190	1,000 psi
Abrasion Resistance MIL-D-3134F, Sec. 4.7.8.	0.150 inch lost
Flexural Strength ASTM C 293	2,500 psi
Bond Strength ASTM C 190	300 psi
Flammability	Self-Extinguishing over concrete
Resistance to Elevated Temperatures MIL-D-3134J	No slip or flow at required temperature of 158°F

ASTM C = Mortar system
ASTM D = Resin only

Installation

General Polymers materials shall only be installed by approved contractors. The following information is to be used as a guideline for the installation of the POLYACRYLATE TERRAZZO #801 FLOORING SYSTEM. Contact the Technical Service Department for assistance prior to application.

Surface Preparation - General

General Polymers systems can be applied to a variety of substrates, if the substrate is properly prepared. Preparation of surfaces other than concrete will depend on the type of substrate, such as wood, concrete block, quarry tile, etc. Should there be any questions regarding a specific substrate or condition, please contact the Technical Service Department prior to starting the project. Refer to Surface Preparation (Form G-1).

Application Information

	Material	Mix Ratio	Theoretical Coverage Per Coat Concrete	Packaging
	4772 with Cement		150 sq ft / gal	
	4772 Water		60-70 sq. ft. / 2½ gals @ 3/8" 1 gal	6 or 50 gals
	Cement		94 lbs (1 bag)	94 lbs
	Marble, Granite chips or other approved aggregates	#1	100 lbs	
	Marble, Granite chips or other approved aggregates	#2	100 lbs	
	5270 Cement pigment (optional)		25 lbs 2-4 lbs	50 lb. bag
Grout	4772 with Cement		325-335 sq. ft. / gal	6 or 50 gals
Seal Coat(s)	4540	Single Component	300-350 sq. ft. / gal	5 or 55 gals
	4401 (in place of 4540)	Single Component	500-750 sq. ft. / gal	1, 5 or 55 gals

Surface Preparation - Concrete

Concrete surfaces shall be abrasive blasted to remove all surface contaminants and laitance. The prepared concrete shall have a surface profile equal to 40-60 grit sandpaper.

After initial preparation has occurred, inspect the concrete for bug holes, voids, fins and other imperfections. Protrusions shall be ground smooth while voids shall be filled with a system compatible filler. For recommendations, consult the Technical Service Department.

Temperature

Throughout the application process, substrate temperature should be 50°F - 90°F. Substrate temperature must be at least 5°F above the dew point. Applications on concrete substrate should occur while temperature is falling to lessen offgassing. The material should not be applied in direct sunlight, if possible.

Primer

Mixing and Application

1. To aid in adhesion, the slab should be damp (with no standing water) before the polyacrylate primer coat is applied.
2. Combine 1 gallon of 4772 polymer with 10-15 lbs. cement to produce a thin slurry. The slurry is applied with a broom, brush, or squeegee. DO NOT mix and apply more material than can be covered in 10-15 minutes.
3. Apply the mortar mix while the primer is still wet. DO NOT let the primed area set more than 15 minutes before applying the mortar.

Mortar

Mixing and Application

1. Load mixer with 2½ gallons of 4772 Blending Polymer and ½ gallon clean water. Up to an additional 1 gallon of water may be added is necessary.
2. While the mixer is running, slowly add 94 lbs of Portland Cement to avoid lumping of cement. Add cement color, if required, and continue mixing until cement and pigment are thoroughly wet out. ***NOTE**
3. Add up to 25 lbs. of 5270 Filler and continue mixing.
4. Add marble chips and begin mixing. Continue mixing until a lump free mix is obtained. Chips should be dust free or color and handling properties may be affected.
5. Add 4772 as needed if mix is dry.
6. Spread and trowel material immediately and roll to remove excess moisture. Finish trowel for compaction and density. Cover immediately with polyethylene to prevent shrinkage crackage.
7. Allow material to cure 24-72 hours.

***NOTE: For white terrazzo, use 1 1/2 lbs. titanium dioxide per bag of white cement.**

Grinding

1. Rough Grind with 24 grit stones or with comparable diamond plugs. Begin grinding when system has achieved sufficient strength.

Grout Coat

Mixing and Application

1. Before grouting use 80 grit stone. Clean floor thoroughly. Grout can be applied to a damp (not wet) floor.
2. Add 1 gallon of 4772 polymer to 10-15 lbs. of cement to produce a thin slurry.
3. Hand apply grout material to floor with a flat trowel. Allow grout to cure a minimum of 24 hours and polish with 80 or 120 polishing stones.
4. Clean floor thoroughly before applying seal coat.

Seal Coat 4540

Mixing and Application

1. Apply 4540 using 1/4" nap, urethane roller. Apply at a spread rate of 300-350 square foot per gallon evenly with no puddles making sure of uniform coverage.
2. Allow to cure 2-4 hours before applying second coat. Allow 24 hours minimum before opening to traffic.

Seal Coat 4401(in place of 4540)

Mixing and Application

1. Apply 4401 using a lambs wool applicator. Apply at a spread rate of 500-750 square foot per gallon evenly with no puddles making sure of uniform coverage.
2. Allow to cure 2-4 hours before applying second coat. Allow 24 hours minimum before opening to traffic.

Cleanup

Clean up mixing and application equipment immediately after use. Use toluene or xylene. Observe all fire and health precautions when handling or storing solvents.

Safety

MSDS (Material Safety Data Sheets) must be read and understood by personnel responsible for supervision and installation of the General Polymers Materials. In particular, PPI (Personal Protection Index) data should be consulted to help insure safe handling. All applicable federal, state, local, and particular plant safety guidelines must be followed during the handling and installation and cure of these materials.

Safe and proper disposal of excess materials shall be done in accordance with applicable federal, state, and local codes.

Material Storage

Store materials in a temperature controlled environment (50°F to 90°F) and out of direct sunlight.

Keep resins, hardeners, and solvents separated from each other and away from sources of ignition. One year shelf life is expected for products stored between 50°F to 90°F.

Maintenance

Occasional inspection of the installed material and spot repair can prolong system life. For specific information, contact the Technical Service Department.

Shipping

- Destinations east of the Rocky Mountains are shipped F.O.B. Cincinnati, Ohio.
- Destinations west of the Rocky Mountains are shipped F.O.B. Victorville, California.

For specific information relating to international shipments, contact your local sales representative.

Warranty

The sale of General Polymers Brand products is governed by the Standard Terms and Conditions of Sale. Sherwin-Williams has no knowledge or control concerning buyer's use for the product nor over the quality of the concrete or substrate to which they are applied. Sherwin-Williams assumes no responsibility for any loss or damage resulting from the handling or use of the products by the buyers. Sherwin-Williams makes the following **LIMITED WARRANTY** that its products have been supplied free from manufacturing defects, and will conform to Sherwin-Williams manufacturing standards. Technical data furnished is true and accurate to the best of our knowledge; however, no guarantee of accuracy is given or implied.

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