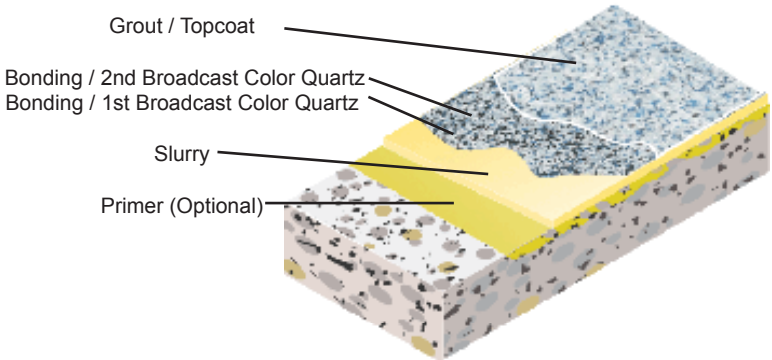




FasTop™ CERAMIC CARPET™ System

FasTop CERAMIC CARPET SYSTEM is a decorative, cementitious urethane self-leveling slurry with color quartz broadcast to yield a 3/16"-1/4" finished system. **FasTop CERAMIC CARPET** can be applied with a pin rake, screed rake or flat trowel. It is designed to provide a durable, yet, decorative seamless flooring system on concrete substrates which will not be adversely affected by moisture vapor emissions.



3/16"-1/4"

Advantages

- Can be applied to "green" concrete
- Rapid cure and hardness development
- Water based
- Impact resistant
- Moisture insensitive
- No moisture testing required
- Acceptable for use in USDA inspected facilities

Uses

- Warehouses
- Aircraft Hangars
- Manufacturing Flooring
- Garages

Limitations

- Protect material from freezing

Typical Physical Properties

Color	Pre-Blended Standard Colors Custom Color Blends Available	
Cure Time	Recoat	8-12 hours
	Foot Traffic	18-24 hours
	Full Service	36-48 hours
Abrasion Resistance	100 mgs lost	
ASTM D 4060, CS-17 Wheel, 1,000 cycles		
Hardness, Shore D	75	
ASTM D 2240		
Tensile Strength	550-600 psi	
ASTM C 307		
Compressive Strength	5,000 psi	
ASTM C 579		
Flexural Strength	3,700 psi	
ASTM C 580		
Impact Resistance	Withstands 16 ft lbs	
MIL-D-3134, Sec.4.7.3		
		without cracking, delamination or chipping
Flammability	Self-Extinguishing over concrete	
Critical Radiant Flux	>1.0	
ASTM E 648		
Smoke Density	287-346	
ASTM E 662		

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 **FasTop CERAMIC CARPET 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).

Surface Preparation — Concrete

Concrete surfaces shall be abrasive blasted to remove all surface contaminants and laitance. The prepared concrete shall have a surface profile depending upon system selected. Refer to Form G-1.

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/10°C – 90°F/32°C. Substrate temperature must be at least 5°F/-15°C 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. Protect material from freezing prior to installation.

Limitations

The substrate must be structurally sound, cleaned of any foreign matter that will inhibit adhesion.

Do not apply in temperatures below 50°F/10°C or above 85°F/29°C or when relative humidity is greater than 85%. If substrate is not concrete, wood or metal as described in Surface Preparation (Form G-1) then do not apply. Call Technical Service Department for recommendation.

To limit this potential install when concrete temperatures are falling, when air temperatures will not differentiate more than 10 degrees during installation and cure, or prime with 3477 Epoxy Water Emulsion Primer / Sealer in areas not exposed to high temperatures.

- **Do not mix partial units.**
- **Do not hand mix. Do not let mixed material sit in mass, even a 2-3 minute delay in pouring will reduce working time.**
- **Do not apply to cracked or unsound substrates.**
- **Do not install outside, call Technical Service**

Full chemical resistance is achieved after a seven (7) day cure. Consult the Technical Service Department for specific chemical resistance.

Application Information — Surface Prep Profile CSP 3-5

VOC MIXED		MATERIAL	MIX RATIO	THEORETICAL COVERAGE PER COAT CONCRETE	PACKAGING
<200 g/L	Optional Primer for outgassing	3477	2:1	250 sq. ft. / gal	3 or 15 gals
<50 g/L 0 0	Slurry Broadcast	4080 5035 5900F	1 unit	70-75 sq. ft. / unit 35 lbs 500 lbs / 1,000 sq. ft.	1.8 gals 35 lb. bag 50 lb. bag
<100 g/L 0	Bonding Coat 2nd Broadcast	3746 5900F	2:1 premeasured unit	100-120 sq. ft./gal 500 lbs / 1,000 sq. ft.	3 or 15 gals 50 lb. bag
<100 g/L	Grout Coat	3746	2:1 premeasured unit	160-200 sq. ft./gal	3 or 15 gals
<100 g/L	Topcoat	3746	2:1 premeasured unit	160-200 sq. ft./gal	3 or 15 gals

For additional topcoat options consult the General Polymers Topcoat Selection Guide, or contact your Sherwin Williams representative.

Optional Primer for outgassing

Mixing and Application

1. Premix 3477A (resin) and 3477B (hardener) separately, using a low speed drill and Jiffy blade. Mix for one minute and until uniform, exercising caution not to whip air into the materials.
2. Add 2 parts 3477A (resin) to 1 part 3477B (hardener) by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform. DO NOT mix more material than can be used within 4 hours. Apply material with a short nap roller at a spread rate of 250 sq. ft. per gallon.
3. **DO NOT ALLOW TO PUDDLE.** Any uneven or textured surfaces will require more material than an even surface.
4. Proceed when tack free, 1-4 hours on shot blasted concrete.

Slurry

Mixing and Application

DO NOT PREMIX 4080 PART B HARDENER. OVER EXPOSURE TO AIR EFFECTS PHYSICAL PROPERTIES

1. Add 4080A (resin) to 4080B (hardener) and mix with low speed drill and Jiffy mixer until uniform.
2. Pour 35 lbs. 5035 aggregate and 1 pre-measured unit (1 gal Part A : short-filled gal Part B) into container and mix until no lumps remain. Immediately pour mixed material onto the substrate and pull out using a pin rake, screed rake or flat trowel at a spread rate of 70-75 sq. ft. at 1/16". Place all material within 15 minutes. Back roll with a loop roller to assist leveling. Allow material to self-level (2-5 minutes).
3. Broadcast 5900F ceramic granules to saturation (about 500 lbs. per 1,000 square feet).

NOTE: Ceramic Color Quartz distribution is critical to the success of the application. The floor's finished appearance depends on the manner in which the sand has been applied. In grass seed like fashion, allow the sand to fall after being thrown upward and out. **DO NOT THROW DOWNWARD AT A SHARP ANGLE USING FORCE.**

4. Allow to cure for a minimum of 6-8 hours, sweep off excess sand with a clean, stiff bristled broom. Clean sand can be saved for future use. All imperfections such as high spots should be smoothed before the application of the second broadcast coat.

Bonding Coat/2nd Broadcast

Mixing and Application

1. Premix 3746A (resin) using a low speed drill and Jiffy blade. Mix for one minute and until uniform, exercising caution not to introduce air into the material.
2. Add 2 parts 3746A (resin) to 1 part 3746B (hardener) by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform. To insure proper system cure and performance, strictly follow mix ratio recommendations.
3. Apply 3746 using a squeegee or trowel and back roll with a 1/4" nap roller at a spread rate of 100-120 square feet per gallon to yield 10-13 mils WFT with no puddles making sure of uniform coverage. **Take care not to puddle materials and insure even coverage.**

4. Allow material to self-level 10-15 minutes. Begin evenly seeding the 5900F into wet resin much the same as grass seed is spread at 500 lbs. per 1,000 sq. ft.. Granules may be spread by hand or mechanical blower but should be broadcast in such a way that the granules falls lightly into resin without causing the resin to move. Continue broadcasting to excess until the floor appears completely dry.

5. Allow to cure (Cure times vary depending on environmental conditions), sweep off excess granules with a clean, stiff bristled broom. Clean granules can be saved for future use. All imperfections such as high spots should be smoothed before the application of the topcoat.

Topcoat

Mixing and Application

1. Premix 3746A (resin) using a low speed drill and Jiffy blade. Mix for one minute and until uniform, exercising caution not to introduce air into the material.
2. Add 2 parts 3746A (resin) to 1 part 3746B (hardener) by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform. To insure proper system cure and performance, strictly follow mix ratio recommendations.

3. Apply 3746 using a squeegee or trowel and back roll with a 3/8" nap roller at a spread rate of 160-200 square feet per gallon (4.1-5.1 sq meter / liter) to yield 8-10 mils (200-250 microns) WFT making sure of uniform coverage. **Take care not to puddle materials and insure even coverage.**

4. After 20-30 minutes set-up time, material should be rolled with a spike roller to remove any entrapped air. Do not spike roll after 40 minutes.

5. Allow to cure 24 hours minimum before opening to traffic and water exposure.

Note: Epoxy materials will appear to be cured and "dry to touch" prior to full chemical cross linking. Allow epoxy to cure 2-3 days prior to exposure to water or other chemicals for best performance.

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

Refer to the MSDS sheet before use. 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.

Maintenance

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

Material Storage

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

Keep resins, hardeners, and solvents separated from each other and away from sources of ignition.

Disclaimer

The information and recommendations set forth in this document are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product(s) offered at the time of publication. Published technical data and instructions are subject to change without notice.

Consult www.generalpolymers.com to obtain the most recent Product Data information and Application instructions.

Warranty

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams, NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.



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