

Technical Data Sheet



3556

Epo-Flex® Terrazzo Membrane

PRODUCTION DESCRIPTION

General Polymers 3556 EPO-FLEX TERRAZZO MEMBRANE is a high solids, flexible epoxy material which combines the toughness, adhesion and durability of epoxies with a degree of flexibility common to polyurethanes. Flexibility is achieved without the use of plasticizers or other additives which can separate or migrate out of the epoxy complex as the material ages or is degraded due to environmental conditions. 3556 EPO-FLEX TERRAZZO MEMBRANE may be used with fiberglass mesh in surfaces for larger cracks and joints. It is ideal for crack bridging under epoxy terrazzo due to material compatibility.

ADVANTAGES

- Optional reinforcement
- Bridges hairline cracks, aids in suppression of reflective cracking of terrazzo applied flooring due to substrate movement associated with thermal movement.
- Flexible, yet tough
- VOC compliant allowing for installation in occupied facilities
- State of the art chemistry assures long-term flexibility

TYPICAL USES

3556 EPO-FLEX TERRAZZO MEMBRANE is recommended for use as a flexible membrane under General Polymers THIN-SET EPOXY TERRAZZO flooring systems where substrate cracking is anticipated and/or evident.

LIMITATIONS

- Slab on grade requires vapor/moisture barrier.
- Substrate must be structurally sound, dry and free of bond inhibiting contaminants.
- During installation and initial cure cycle substrate and ambient air temperature must be at a minimum of 60F. Substrate temperature must be least 5F above the dew point (for lower temperature installation contact the Technical Service Department.
- When required, adequate ventilation shall be provided and proper clothing and respirators worn.
- Extinguish all sources of ignition during the entire installation cycle.
- **Strictly adhere to published coverage rates.**
- **Strictly adhere to mixing ratios.**

TYPICAL PHYSICAL PROPERTIES @ 73F

Mix Ratio A:B	1:1
Color	Gray
VOC (Volatile Organic Content) EPA Method 24	Compliant
SCAQMD Method 304	Compliant
Coverage @ 40 mils WFT	40 sq. ft.
Pot Life, 1 gallon mass	35 minutes
Cure Time	16 - 24 hours
Dry to Touch	24 hours min.
Recoat	
Adhesion ACI 503R	350 psi (100% concrete failure)
Hardness, Shore D ASTM D 2240	23
Tensile Strength ASTM D 412	1,000-1,300 psi
Elongation @ Break ASTM D 412	130-145%
Thermal Cycling ASTM C 884 (24 hours, -21C to 25C)	No Cracking
Flammability	Self-extinguishing over concrete

SURFACE PREPARATION

Proper inspection and preparation of the substrate to receive resinous material is critical. Read and follow the "Instructions for Concrete Surface Preparation" (Form G-1) for complete details.

STORAGE / APPLICATION

• MATERIAL DELIVERY AND STORAGE

Store materials in accordance instructions, with seals and labels intact and legible. 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 - 90°F.

• APPLICATION INSTRUCTIONS

1. Premix 3556A (resin) using a low speed drill and Jiffy balde. Mix for one minute and until uniform, exercising caution not to introduce air into the material.

2. Add 1 part 3556A (resin) to 1 part 3556B (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. Immediately pour the mixed material onto the substrate and pull out using a v-notched red rubber squeegee at a spread rate of 40 square feet per gallon to yield 40 mils WFT. Readings must be taken continuously during application with a wet mil gauge to verify material is being applied at the proper thickness. Allow material to cure overnight at 73°F surface temperature. Material cures slower at lower temperatures.

NOTE: Epoxy materials may tend to blush at the surface especially in humid environments. After surface is primed and before installation of each subsequent coat, surface must be examined for blush (a whitish greasy film and/or low gloss). The blush must be completely removed prior to recoating using warm detergent water or through solvent wipe.

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.

CHEMICAL RESISTANCE

For comprehensive chemical resistance information, consult the Chemical Resistant Guide and contact the Technical Service Department.

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. 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.

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.

Disclaimer

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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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