



Protective & Marine Coatings

GENERAL POLYMERS® 3556 EPO-FLEX® TERRAZZO MEMBRANE

PART A
PART B

GP3556
GP3556B01

SERIES
HARDENER

Revised September 23, 2014

PRODUCT INFORMATION

PRODUCT 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. GENERAL POLYMERS 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
- Waterproofing
- Bridges hairline cracks, aids in suppression of reflective cracking of terrazzo applied flooring due to substrate movement associated with thermal movement.
- Flexible, yet tough
- State of the art chemistry assures long-term flexibility
- Acceptable for use in USDA inspected facilities

TYPICAL USES

GENERAL POLYMERS 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 60°F (16°C). Substrate temperature must be at least 5°F (3°C) above the dew point (for lower temperature installation contact your local sales representative).
- When required, adequate ventilation shall be provided and proper clothing and respirators worn.
- **Strictly adhere to published coverage rates.**
- **Strictly adhere to mixing ratios.**

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.

PRODUCT CHARACTERISTICS

Color:	Gray
Mix Ratio:	1:1
Volume Solids:	93% ± 2%, mixed
Weight Solids:	95% ± 2%, mixed
VOC (EPA Method 24):	<100 g/L mixed; 0.83 lb/gal
Viscosity, mixed:	2,000 cps

Recommended Spreading Rate per coat:

Wet mils (microns):	40	(1,000)
~Coverage sq ft/gal (m²/L):	40	(1.0)

Drying Schedule @ 6 mils (150 microns) wet:

	@ 73°F (23°C)	
To touch:	16-24 hours	
To recoat:	24 hours	
<i>If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.</i>		
Pot Life:	gallon mass	35 minutes @ 73°F (23°C)

Shelf Life:	Part A: 36 months, unopened
	Part B: 36 months, unopened
	Store indoors at 50°F (10°C) to 90°F (32°C)

Flash Point: 222°F (106°C), ASTM D 93, mixed

PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
Adhesion	ACI 503R	300 psi concrete failure
Elongation@ Break	ASTM D 412	130-145%
Flammability		Self-extinguishing over concrete
Hardness, Shore D	ASTM D 2240	23
Tensile Strength	ASTM D 412	1,000-1,300 psi
Thermal Cycling 24 hrs., -21°C - 25°C	ASTM C 884	No cracking



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APPLICATION

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 (23°C) 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.

ORDERING INFORMATION

Packaging:
 Part A: 1 gallon (3.8L) and 5 gallon (18.9L) containers
 Part B: 1 gallon (3.8L) and 5 gallon (18.9L) containers
 Weight: 8.68 ± 0.2 lb/gal; 1.04 Kg/L

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.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

MAINTENANCE

Occasional inspection of the installed material and spot repair can prolong system life.

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

The information and recommendations set forth in this Product Data Sheet 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 offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

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.