



GENERAL POLYMERS® FLOORS

GP3552 EPO-FLEX® FLEXIBLE EPOXY MEMBRANE

PART A
PART B

GP3552
GP3552B01

SERIES
HARDENER

Revised 05/13

PRODUCT INFORMATION

PRODUCT DESCRIPTION

GP3552 EPO-FLEX FLEXIBLE EPOXY 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. GP3552 EPO-FLEX FLEXIBLE EPOXY MEMBRANE may be used with fiberglass mesh in surfaces for larger cracks and joints.

ADVANTAGES

- Optional reinforcement
- Bridges hairline cracks, aids in suppression of reflective cracking of trowel applied flooring due to substrate movement associated with thermal movement.
- Flexible, yet tough
- State of the art chemistry assures long-term flexibility
- Remains flexible at low temperatures
- Waterproofing
- Acceptable for use in USDA inspected facilities

TYPICAL USES

GP3552 EPO-FLEX FLEXIBLE EPOXY MEMBRANE is recommended for use as a flexible membrane under General Polymers trowel and fluid-applied flooring systems where substrate cracking is anticipated and/or evident or as a waterproofing membrane as required. Installations under aesthetic and functional overlays include: mechanical equipment rooms, kitchens, animal research, wet production, secondary containment and other areas requiring protection from substrate through-system cracking.

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 General Polymers 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.**

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:	94% ± 2%, mixed
VOC (EPA Method 24):	<100 g/L mixed; 0.83 lb/gal
Viscosity, mixed:	2,000 cps

Recommended Spreading Rate per coat:

	Minimum		Maximum	
Wet mils (microns):	20	(500)	40	(1000)
~Coverage sq ft/gal (m²/L):	40	(1.0)	80	(2.0)

Drying Schedule @ 10 mils (250 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.</i>	
<i>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 (Standard): 36 months, unopened
	Store indoors at 50°F (10°C) to 90°F (32°C)
Flash Point:	>222°F (>104°C), ASTM D 93, mixed

PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
Adhesion	ACI 503R	300 psi concrete failure
Elongation @ Break	ASTM D 412	145%
Flammability		Self-extinguishing over concrete
Hardness, Shore D	ASTM D 2240	23
Tensile Strength	ASTM D 412	1,200 psi
Thermal Cycling	ASTM C 884 24 hours, -21°C-25°C)	No cracking



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APPLICATION

APPLICATION INSTRUCTIONS

1. Premix 3552A (resin) using a low speed drill and Jiffy blade. Mix for one minute and until uniform, exercising caution not to whip air into the material.

2. Add 1 part 3552A (resin) to 1 part 3552B (hardener) by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform.

3. Immediately pour the mixed material onto the substrate and pull out using a 1/8" v-notched squeegee to yield 20 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 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.

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.

Published technical data and instructions are subject to change without notice. Contact your local sales 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.

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: 9.2 ± 0.2 lb/gal; 1.1 Kg/L mixed, may vary by color

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.