



# Protective & Marine Coatings

## GENERAL POLYMERS® 3555 EPO-FLEX® HD EPOXY COATING

PART A  
PART B

GP3555  
GP3555B01

SERIES  
HARDENER

Revised September 23, 2014

### PRODUCT INFORMATION

#### PRODUCT DESCRIPTION

**GENERAL POLYMERS 3555 EPO-FLEX HD EPOXY COATING** is a high solids, chemical resistant, elastomeric epoxy which combines the toughness, adhesion, and durability of epoxies with the flexibility common to polyurethane elastomers. Flexibility is achieved without the use of plasticizers or other additives which migrate from a material as it ages. GENERAL POLYMERS 3555 EPO-FLEX HD EPOXY COATING is self-leveling and may be used with fiberglass reinforcement to enhance system properties, or as a waterproofing membrane. GENERAL POLYMERS 3555 EPO-FLEX HD EPOXY COATING can be used as a stand alone coating as well as a component of other recommended flooring systems.

#### ADVANTAGES

- Self-leveling
- Flexible, yet tough
- State of the art chemistry assures long-term flexibility
- May be poured-in-place to form an absorption pad for heavy loads and substrate movement
- Acceptable for use in USDA inspected facilities

#### TYPICAL USES

**GENERAL POLYMERS 3555 EPO-FLEX HD EPOXY COATING** is recommended for use as a flexible coating and as a component of EPO-FLEX Industrial Floor and EPO-FLEX MER (Mechanical Room Flooring Systems). GENERAL POLYMERS 3555 EPO-FLEX HD EPOXY COATING can also be used as a waterproofing membrane under any recommended flooring systems.

#### 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

<b>Color:</b>	Gray
<b>Mix Ratio:</b>	1:1
<b>Volume Solids:</b>	84% ± 2%, mixed
<b>Weight Solids:</b>	91% ± 2%, mixed
<b>VOC (EPA Method 24):</b>	<100 g/L mixed; 0.83 lb/gal
<b>Viscosity, mixed:</b>	1,450 cps

#### Recommended Spreading Rate per coat:

	Minimum	Maximum
<b>Wet mils (microns):</b>	20 (500)	40 (1000)
<b>~Coverage sq ft/gal (m<sup>2</sup>/L):</b>	40 (1.0)	80 (2.0)

#### Drying Schedule @ 6 mils (150 microns) wet:

	@ 73°F (23°C)
<b>To touch:</b>	5 hours
<b>To recoat:</b>	12-24 hours
<b>Full Cure:</b>	48 hours
<i>If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.</i>	
<b>Pot Life:</b>	gallon mass 20-25 minutes @ 73°F (23°C)

<b>Shelf Life:</b>	Part A: 36 months, unopened
	Part B (Standard): 36 months, unopened
	Store indoors at 50°F (10°C) to 90°F (32°C)
<b>Flash Point:</b>	>218°F (>103°C), ASTM D 93, mixed

#### PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
<b>Adhesion</b>	ACI 503R	300 psi concrete failure
<b>Elongation</b>	ASTM D 412	80%
<b>Flammability</b>		Self-extinguishing over concrete
<b>Hardness, Shore D</b>	ASTM D 2240	50/40
<b>Tensile Strength</b>	ASTM D 412	1,700 psi
<b>Thermal Cycling 24 hrs., -21°C - 25°C</b>	ASTM C 884	No cracking



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#### APPLICATION

##### APPLICATION INSTRUCTIONS

1. Premix 3555A (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 3555A (resin) to 1 part 3555B (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 and cross roll with a 3/8" nap roller. 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 surface temperature. Material cures slower at lower temperatures.
4. After the membrane is cured, check for surface blush. Remove any blush with detergent wash completing installation of desired system.

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:	8.8 ± 0.2 lb/gal; 1.05 Kg/L

#### CHEMICAL RESISTANCE

For comprehensive chemical resistance information, consult the Chemical Resistant Guide.

#### 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.