



# Protective & Marine Coatings

## GENERAL POLYMERS® 3505 STIPPLE EPOXY FLOOR COATING

PART A  
PART B

GP3505  
GP3505B01

SERIES  
HARDENER

Revised September 22, 2014

### PRODUCT INFORMATION

#### PRODUCT DESCRIPTION

**GENERAL POLYMERS 3505 STIPPLE EPOXY FLOOR COATING** is a high solids, high performance epoxy coating that has been designed to provide a high gloss, stipple finish with above average chemical resistant protection. It offers protection against splash, spillage and fumes of many process chemicals, caustic cleaners, oils, fuels and acids. **GENERAL POLYMERS 3505 STIPPLE EPOXY FLOOR COATING** provides an attractive stipple finish and should be used wherever a high-build, protective coating is required.

#### ADVANTAGES

- High gloss finish
- Chemical and abrasion resistant
- High mil build per coat speeds project turnaround
- Good hiding
- Acceptable for use in USDA inspected facilities

#### TYPICAL USES

**GENERAL POLYMERS 3505 STIPPLE EPOXY FLOOR COATING** is a high solids coating which has no offensive solvent odor typical of other industrial coatings. This allows installation in occupied areas and also permits use on previously painted surfaces (with proper surface preparation) without fear of lifting the existing coating. **GENERAL POLYMERS 3505 STIPPLE EPOXY FLOOR COATING** can be used in food and meat processing facilities, breweries and pharmaceutical plants. Other applications include power generation plants, waste treatment, manufacturing and warehousing facilities.

#### LIMITATIONS

- Standing water can leave a stain or alter color.
- Light colors may require two coats for proper hiding.
- 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 50°F (10°C). Substrate temperature must be least 5°F (3°C) above the dew point (for lower temperature installation contact the Technical Service Department).
- **Strictly adhere to published coverage rates.**
- **This coating though resistant, is not a guarantee against tire staining. Vehicular tires from cars and trucks to tractors and boat trailers are varied and have the potential to leave a stain under certain conditions. Place rubber mats or carpet pieces under the tires to avoid the issue.**

#### 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>	Standard Colors Computerized custom color matching available upon request
<b>Mix Ratio:</b>	4:1
<b>Viscosity:</b>	10,000-12,000 cps
<b>Volume Solids:</b>	93% ± 2%, mixed
<b>Weight Solids:</b>	94% ± 2%, mixed
<b>VOC (EPA Method 24):</b>	<100 g/L mixed; 0.83 lb/gal

#### Recommended Spreading Rate per coat:

	Minimum	Maximum
<b>Wet mils (microns):</b>	<b>6 (150)</b>	<b>8 (200)</b>
<b>~Coverage sq ft/gal (m<sup>2</sup>/L):</b>	<b>266 (6.8)</b>	<b>200 (5.1)</b>

#### Drying Schedule @ 8 mils (200) microns) wet:

	@ 73°F (23°C)	
<b>To touch:</b>	10-12 hours	
<b>To recoat:</b>	14-24 hours	
<b>Light traffic:</b>	24 hours minimum	
<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	185 minutes @ 50°F (10°C)
	gallon mass	40 minutes @ 73°F (23°C)
	gallon mass	20 minutes @ 90°F (32°C)

<b>Shelf Life:</b>	Part A: 36 months, unopened Part B: 36 months, unopened Store indoors at 50°F (10°C) to 90°F (32°C)
<b>Flash Point:</b>	>250°F (>121°C), ASTM D 93, mixed

#### PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
<b>Abrasion Resistance</b>	ASTM D4060, CS17 wheel, 1000 cycles	100 mg loss
<b>Adhesion</b>	ACI 503R	300 psi concrete failure
<b>Flammability</b>		Self-extinguishing over concrete
<b>Gloss</b>	60° Gloss Meter @73°F (23°C), 50% RH	90 millage units
<b>Hardness, Shore D</b>	ASTM D 2240	65
<b>Impact Resistance</b>	ASTM D 2794	Direct inch-pound greater than 160, passes Reverse, inch-pound greater than 80, passes
<b>Resistance to Elevated Temperature</b>	MIL-D-3134J Section 4.7.5	No slip or flow at required temperature of 158°F (70°C)



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#### APPLICATION

##### APPLICATION INSTRUCTIONS

1. Premix 3505A (resin) using a low speed drill and Jiffy blade for one minute and until uniform, exercising caution not to introduce air into the material.
2. Add 4 parts 3505A (resin) to 1 part 3505B (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 3505 using a squeegee or trowel and back roll using a 1/4" nap roller at a spread rate of 200 square feet per gallon to yield 8 mils WFT with no puddles making sure of uniform coverage. **Take care not to puddle materials and insure even coverage.** To eliminate roller marks and lines, cross rolling is recommended.
4. Allow to cure 24 hours minimum before opening to traffic.

**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 4 gallon (15.2L) containers
Part B:	0.25 gallon (0.95L) and 1 gallon (3.8L) containers 5 gallons (18.9L) containers
Weight:	9.8 ± 0.2 lb/gal; 1.20 Kg/L mixed, may vary by color

#### 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.

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. 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

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.