



# Protective & Marine Coatings

## GENERAL POLYMERS® 3477 EPOXY WATER EMULSION PRIMER/SEALER

**PART A**  
**PART B**

**GP3477**  
**GP3477B01**

**SERIES**  
**HARDENER**

Revised: August 4, 2020

### PRODUCT INFORMATION

#### PRODUCT DESCRIPTION

**GENERAL POLYMERS 3477 EPOXY WATER EMULSION PRIMER/SEALER** is an economical sealer for concrete that will outperform water-based acrylic or acrylic/urethane sealers (chemical resistance and wear). Its low viscosity allows GENERAL POLYMERS 3477 to flow smoothly, making it easy to spread. GENERAL POLYMERS 3477 is suitable for applications as a primer on damp concrete, providing excellent adhesion of polyurethane and epoxy topcoats.

#### ADVANTAGES

- Penetrating
- Acceptable for use in USDA inspected facilities
- Acceptable for use in Canadian Food Processing facilities, categories: D1, D2, D3 (Confirm acceptance of specific part numbers with your SW Sales Representative)
- Can be applied to green concrete
- Excellent adhesion to concrete or wood
- Breathable
- Long pot life
- Reduces concrete dusting
- Easy to spread
- Suitable for use on damp (not wet) concrete
- Fast cure time

#### TYPICAL USES

**GENERAL POLYMERS 3477 EPOXY WATER EMULSION PRIMER/SEALER** is used as a sealer for concrete and wood substrates and as a primer for certain General Polymers coating systems.

#### LIMITATIONS

- Substrate must be structurally sound 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).
- When required, adequate ventilation and proper clothing shall be provided.
- Strictly adhere to published coverage rates.

#### 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>	Clear
<b>Mix Ratio:</b>	2:1
<b>Volume Solids:</b>	31% ± 2%, mixed
<b>Weight Solids:</b>	31% ± 2%, mixed
<b>VOC (EPA Method 24):</b>	Unreduced: <75 g/L mixed; 0.63 lb/gal as applied
<b>Viscosity, mixed:</b>	40 cps

#### Recommended Spreading Rate per coat:

	Minimum	Maximum
<b>Wet mils (microns):</b>	2 (50)	4.5 (113)
<b>Coverage sq ft/gal (m<sup>2</sup>/L):</b>	800 (20.3)	350 (8.9)

#### Drying Schedule @ 4.5 mils (113 microns) wet:

	<b>@ 73°F (23°C)</b>
<b>To touch:</b>	1-4 hours
<b>To recoat:</b>	2-24 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 6-8 hours @ 73°F (23°C)

**Shelf Life:** Part A: 12 months, unopened  
Part B: 12 months, unopened  
Do not allow material to freeze  
Store indoors at 50°F (10°C) to 90°F (32°C)

**Flash Point:** >200°F (>93°C), ASTM D 93, mixed

#### PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
<b>Adhesion to Concrete</b>		Excellent
<b>Resistance to Moisture</b>		Excellent
<b>Surface Burning*</b>	ASTME84/ NFPA 255	Flame Spread Index 20; Smoke Development Index 90
<b>Thermal Shock</b>		Excellent

\*GP3477 at 1.5 mils (40 microns) DFT topcoated with GP3745 at 17.5 mils (438 microns) DFT



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#### APPLICATION

##### APPLICATION INSTRUCTIONS

1. Premix 3477A (resin), using a low speed drill and Jiffy blade. Mix for one minute and until uniform, exercising caution not to whip air into the materials.

2. Add 2 parts 3477A (resin) to 1 part 3477B (hardener) by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform. DO NOT mix more material than can be used within 4 hours.

3. Apply material with a 3/8" nap roller at a spread rate of 400 sq. ft. per gallon.

If a second coat is required or used as a sealer, the application rate should be 500-600 sq. ft. per gallon. Due to the first coat sealing the surface, the second coat may crawl or separate, wait 15-20 minutes and roll again.

**DO NOT ALLOW TO PUDDLE.** Any uneven or textured surfaces will require more material than an even surface.

4. Allow to cure 4-6 hours.

#### 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:	8.7 ± 0.2 lb/gal; 1.04 Kg/L mixed, may vary by color

#### TINTING

Do not tint.

#### CLEANUP

Clean up mixing and application equipment immediately after use with soap and water.

#### SAFETY

Refer to the SDS 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 your Sherwin-Williams 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.