

**Technical Data Sheet**



3477

## Epoxy Water Emulsion Primer / Sealer

**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 3477 to flow smoothly, making it easy to spread. 3477 is suitable for applications as a primer on damp concrete, providing excellent adhesion of polyurethane and epoxy topcoats. This primer is ready for topcoating in 4-6 hours.

**ADVANTAGES**

- Penetrating
- Meets USDA requirements for use in federally inspected facilities
- Can be applied to green concrete
- Excellent adhesion to concrete or wood
- Breathable
- Low odor
- Long pot life
- Reduces concrete dusting
- Easy to spread
- Suitable for use on damp (not wet) concrete installation
- Fast cure time
- Meets low VOC requirements
- Available with an antimicrobial agent

**TYPICAL USES**

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, dry and free of bond inhibiting contaminants.
- During installation and initial cure cycle substrate and ambient air temperature must be at a minimum of 50F. Substrate temperature must be least 5F above the dew point (for lower temperature installation contact the Technical Service Department).
- When required, adequate ventilation and proper clothing shall be provided.
- Extinguish all sources of ignition during the entire installation cycle.
- Strictly adhere to published coverage rates.

**TYPICAL PHYSICAL PROPERTIES @ 73F**

Color	Clear
Mix Ratio A:B	2:1
Viscosity, mixed	15-30 cps
Pot Life	6-8 hours
Solids, by volume	32%
VOC (Volatile Organic Content) EPA Method 24	Compliant
SCAQMD Method 304	Compliant
Coverage @ 2.0-4.5 mils WFT	350-800 sq. ft.
Cure Time	Dry to Touch 1 1/2 hours
	Recoat 4 - 6 hours
Flammability	Self-extinguishing over concrete
Resistance to Moisture	Excellent
Thermal Shock	Excellent
Adhesion to Concrete	Excellent

**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.

**STORAGE / APPLICATION**

- **MATERIAL DELIVERY AND STORAGE**  
Store materials in accordance instructions, with seals and labels intact and legible. Keep resins, hardeners, and solvents separated from each other and away from sources of ignition. One year shelf life is expected for products stored between 50°F - 90°F. **DO NOT ALLOW MATERIAL TO FREEZE.**

- **APPLICATION INSTRUCTIONS**

1. Premix 3477A (resin) and 3477B (hardener) separately, 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. Apply material with a short nap roller at a spread rate of 400 sq. ft. per gallon.

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

**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. All applicable federal, state, local and particular plant safety guidelines must be followed during the handling and installation and cure of these materials. Safe and proper disposal of excess materials shall be done in accordance with applicable federal, state, and local codes.

**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 document 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(s) offered at the time of publication. Published technical data and instructions are subject to change without notice.

Consult [www.generalpolymers.com](http://www.generalpolymers.com) to obtain the most recent Product Data information and Application instructions.

**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.

