



Protective & Marine Coatings

GENERAL POLYMERS® 3424 CONDUCTIVE WATER-BASED PRIMER / SEALER

PART A
PART B

GP3424A61
GP3424B01

RESIN
HARDENER

Revised August 30, 2016

PRODUCT INFORMATION

PRODUCT DESCRIPTION

GENERAL POLYMERS 3424 CONDUCTIVE WATER-BASED EPOXY PRIMER is a black, two component water-based epoxy designed as a primer for conductive or static dissipative coatings, slurry and mortar systems.

ADVANTAGES

- Impact and abrasion resistant
- Breathable
- Conductivity resistance range of 25,000 - 1,000,000 ohms
- Helps migrate MVT issues

TYPICAL USES

GENERAL POLYMERS 3424 CONDUCTIVE WATER-BASED EPOXY PRIMER provides exceptional resistance to wear, abrasion and chemical attack from most common alkalis and acids. It is suitable for use in computer rooms, circuit board assembly areas, ammunition storage and assembly facilities or any other area requiring dissipation of static electricity.

LIMITATIONS

- Must be reduced 10-20% with water by volume
- 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.**

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:	Black Only
Mix Ratio:	4:1
Potable Water Reduction	10-20% by volume
Volume Solids:	55 % ± 2%, mixed
Weight Solids:	59 % ± 2%, mixed
VOC (EPA Method 24):	<50 g/L mixed; 0.41 lb/gal
Viscosity, mixed:	62,000 cps

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns):	5 (125)	6 (150)
Coverage sq ft/gal (m²/L):	320 (8.1)	250 (6.4)

Drying Schedule @ 5-6 mils (125 - 150 microns) wet:

	@ 73°F (23°C)
To touch:	4 hours
To recoat:	4-24 hours
Light traffic	24 hours
Full Cure	7-10 days
<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 4-6 hours @ 77°F (25°C)

Shelf Life: 36 months, unopened
Store indoors at 50°F (10°C) to 90°F (32°C)

Flash Point: 212°F (100°C), ASTM D 93, mixed

PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
Abrasion Resistance	ASTM D 4060, CS17 wheel, 1,000 cycles	20-30 mg loss
Adhesion	ASTM D 4541	250 psi concrete failure
Conductivity	ASTM F150-06	25,000 - 1,000,000 ohms
Flammability		Self-extinguishing over concrete



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APPLICATION

• APPLICATION INSTRUCTIONS

1. Premix GP3424A (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. 3424 must be reduced to aid in placement. Add 4 Parts GP3424A (resin) to 1 Part GP3424B (hardener) and 10-20% potable water by volume. Mix with low speed drill and jiffy blade for 3 minutes or until uniform.
3. Apply using a short nap roller at a rate of 250 - 320 square feet per gallon (5-6 WFT mils). Allow to cure at least 4 hours prior to topcoating but no more than 24 hours. A light sanding may be required prior to applying topcoat.
4. Inspect primer coat prior to application of system. Test surface resistance in accordance with NFPA 99. Resistance range should be less than 150,000 ohms. If deviation from this range occurs, consult the Technical Service Department immediately.

CLEANUP

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

ORDERING INFORMATION

Packaging:	
Part A:	1 gallon (3.8L) and 4 gallon (15.1L) containers
Part B:	1 quart (0.946 mL) and 1 gallon (3.8L) containers
Weight:	9.5 ± 0.2 lb/gal; 1.14Kg/L

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.