



# Protective & Marine Coatings

## GENERAL POLYMERS® 3425E STATIC CONTROL WATER-BASED EPOXY COATING

PART A  
PART B

GP3425  
GP3425B01

HARDENER  
SERIES

Revised September 23, 2014

### PRODUCT INFORMATION

#### PRODUCT DESCRIPTION

**GENERAL POLYMERS 3425E STATIC CONTROL WATER-BASED EPOXY COATING** is a high solids, two component epoxy coating used for static dissipative and conductive flooring systems. **GENERAL POLYMERS 3425E STATIC CONTROL WATER-BASED EPOXY COATING** is designed as a static dissipative coating over an insulative surface and as a conductive coating when used over a conductive primer.

#### ADVANTAGES

##### ADVANTAGES

- Two component system for ease of use
- Breathable
- Good chemical resistance
- Dissipates static charge
- Conductive when used over conductive primer

#### TYPICAL USES

**GENERAL POLYMERS 3425E STATIC CONTROL WATER-BASED EPOXY COATING** is used as a coating or topcoat over standard flooring systems to provide a static dissipative flooring system in the range of  $10^6$  to  $10^9$  ohms resistance. It is an ideal flooring finish in computer rooms, circuit board assembly areas, hangars and where highly sensitive electronic equipment is used regularly. **GENERAL POLYMERS 3425E STATIC CONTROL WATER-BASED EPOXY COATING** can be used as a conductive coating in the range of 25,000 to  $10^6$  ohms resistance when applied over a conductive primer (GP3424). Conductive flooring is required in flammable material handling areas, black powder storage areas, and other areas where highly explosive materials are present. **GENERAL POLYMERS 3425E STATIC CONTROL WATER-BASED EPOXY COATING** provides exceptional resistance to wear, abrasion and chemical attack from most common alkalis and acids.

#### 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 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.**
- A conductive primer must be used with this product when being used as a conductive coating.

#### 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>	Various
<b>Mix Ratio:</b>	4:1
<b>Potable Water Reduction</b>	5-10%
<b>Volume Solids:</b>	61% ± 2%, mixed
<b>Weight Solids:</b>	71% ± 2%, mixed
<b>VOC (EPA Method 24):</b>	<50 g/L mixed; 0.41 lb/gal
<b>Viscosity, mixed:</b>	2,225 cps

#### Recommended Spreading Rate per coat:

	Minimum	Maximum
<b>Wet mils (microns):</b>	4 (100)	6 (150)
<b>~Coverage sq ft/gal (m<sup>2</sup>/L):</b>	275 (7.0)	400 (10.2)

#### Drying Schedule @ 4-6 mils (100-150 microns) wet:

	<b>@ 73°F (23°C)</b>
<b>To touch:</b>	7 hours
<b>To recoat:</b>	7-24 hours
<b>Light Traffic</b>	24 hours min.
<b>Full Cure</b>	7-10 days

*If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.*

<b>Pot Life:</b>	100 gram mass	4-6 hours	@ 77°F (25°C)
------------------	---------------	-----------	---------------

**Shelf Life:** Part A: 36 months, unopened  
Part B (Standard): 36 months, unopened

Store indoors at 50°F (10°C) to 90°F (32°C)  
DO NOT ALLOW TO FREEZE

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

#### PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
<b>Abrasion Resistance</b>	ASTM D 4060, CS17 wheel, 1,000 cycles	60-70 mg loss
<b>Adhesion</b>	ASTM D 4541	100% concrete failure
<b>Conductivity when applied over conductive primer</b>	ASTM F150-06	25,000 - $10^6$ ohms
<b>when applied over standard primer</b>		$10^6$ - $10^9$ ohms
<b>Flammability</b>		Self-extinguishing over concrete
<b>Hardness, Shore D</b>	ASTM D 2240	60



# Protective & Marine Coatings

## GENERAL POLYMERS® 3425E STATIC CONTROL WATER-BASED EPOXY COATING

PART A  
PART B

GP3425  
GP3425B01

HARDENER  
SERIES

Revised September 23, 2014

### PRODUCT INFORMATION

#### APPLICATION

##### APPLICATION INSTRUCTIONS

1. Inspect base coat prior to application of seal coat. Test surface resistance in accordance with NFPA 99. Resistance range should be less than 150,000 ohms when used as a conductive coating over a conductive primer. If deviation from this range occurs, consult the Technical Service Department immediately.

2. Premix 3425EA (hardener) using a low speed drill and Jiffy blade. Mix for one minute and until uniform, exercising caution not to whip air into the materials.

3. Add 4 parts 3425EA (hardener) to 1 part 3425EB (resin) by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform. 3425E may be reduced with potable water 5 - 10%. DO NOT reduce product until after both components have been mixed together for 90 seconds. Apply using a squeegee or short nap roller at a spread rate of 275-400 sq. ft. per gallon to yield 4-6 mils WFT. Allow to cure at least 24 hours before opening to light foot traffic.

NOTE: For conductive applications, light colors may require 2 coats to hide the 3424 Conductive Black Primer.

#### 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:

10.5 +/- 0.2 lb/gal; 1.26 Kg/L  
(varies by color).

#### 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.

#### 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.