



# Protective & Marine Coatings

## GENERAL POLYMERS® 3561C CONDUCTIVE / SPARKPROOF EPOXY RESIN GLAZE

PART A  
PART B

GP3561C  
GP3561B01

SERIES  
HARDENER

Revised Dec. 29, 2015

### PRODUCT INFORMATION

#### PRODUCT DESCRIPTION

**GENERAL POLYMERS 3561C CONDUCTIVE / SPARKPROOF EPOXY RESIN GLAZE** is a high solids, two-component conductive epoxy resin used as the binder resin and grout coats for the TPM #115 Conductive / Sparkproof Flooring System. GENERAL POLYMERS 3561C CONDUCTIVE / SPARKPROOF EPOXY RESIN GLAZE offers low viscosity, easy handling and good chemical resistance.

#### ADVANTAGES

- Chemical and wear resistant
- Conductivity resistance range of 25,000 - 1,000,000 ohms

#### TYPICAL USES

**GENERAL POLYMERS 3561C CONDUCTIVE / SPARKPROOF EPOXY RESIN GLAZE** is used as a binder resin for conductive mortar systems used in surfacing floors in computer rooms, circuit board assembly areas, flammable material handling areas, black powder storage areas and other installations requiring conductive floor system protection.

#### LIMITATIONS

- Used as a binder / grout resin only, not to be used as a topcoat.
- A conductive primer and seal coat must be used with this product.
- 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 at least 5°F (3°C) above the dew point (for lower temperature installation contact General Polymers Technical Service Department).

#### 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
Mix Ratio:	4:1
Volume Solids:	91% ± 2%, mixed
Weight Solids:	97% ± 2%, mixed
VOC (EPA Method 24):	<50 g/L mixed; 0.41 lb/gal
Viscosity, mixed:	525 cps

**Recommended Spreading Rate per coat:**  
~Coverage sq ft/gal (m<sup>2</sup>/L): varies according to usage

#### Drying Schedule @ 10 mils (250 microns) wet:

	@73°F (23°C)
To touch:	12 hours
To recoat:	Min: 16 hours Max: 24 Hours
Light traffic:	24 hours minimum
Full Cure:	7 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 40 minutes @ 73°F (23°C)

Shelf Life:	Part A:	36 months, unopened
	Part B (Standard):	36 months, unopened
Flash Point:	Part B (Fast Cure):	18 months, unopened
		Store indoors at 50°F (10°C) to 90°F (32°C)
		>222°F (>105°C), ASTM D 93, mixed

#### PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
Abrasion Resistance	ASTM D4060, CS17 wheel, 1,000 cycles	0.1 grams lost
Adhesion	ACI 503R	300 psi concrete failure
Compressive Strength	ASTM D 695	11,000 psi
Flammability		Self-extinguishing over concrete
Flexural Strength	ASTM D 790	10,000 psi
Hardness, Shore D	ASTM D 2240	80/75
Impact Resistance	MIL-D-3134J	Withstands 16 ft./lbs./sq. in. for 30 minutes without indentation
Resistance to Elevated Temperatures	MIL-D-3134J	No slip or flow at required temperature 158°F (70°C)
Resistance Range	ASTM F 150-06	25,000 to 1,000,000,000 ohms
Tensile Elongation	ASTM D 638	2-4%
Tensile Strength	ASTM D 638	6,000 psi



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#### APPLICATION

##### • APPLICATION INSTRUCTIONS

1. Premix 3561CA (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. Add 1 gallon (4 parts) 3561CA (resin) to 1 quart (1 part) 3561B (hardener). Mix with low speed drill and Jiffy blade for three minutes and until uniform.
3. Coverage rates will vary depending upon application. Refer to TPM #115 SPARKPROOF / CONDUCTIVE SYSTEM Bulletin for further information.

NOTE: Electrical resistance testing is required for every conductive and ESD coating system. Please refer to the appropriate System Bulletin for testing and acceptable ranges for each coating layer within the system.

#### 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.

#### 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.

#### ORDERING INFORMATION

Packaging:	
Part A:	1 gallon (3.8L) and 5 gallon (18.9L) containers
Part B:	1 quart (1.0L) and 5 gallon (18.9L) containers
Weight:	9.1 ± 0.2 lb/gal; 1.09 Kg/L mixed, may vary by color

#### 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.