



# Protective & Marine Coatings

## GENERAL POLYMERS® 3569 MULTI-PURPOSE EPOXY

PART A  
PART B  
PART B

GP3569  
GP3569B01  
GP3569B02

SERIES  
STANDARD HARDENER  
FAST CURE HARDENER

Revised September 23, 2014

### PRODUCT INFORMATION

#### PRODUCT DESCRIPTION

GENERAL POLYMERS 3569 MULTI-PURPOSE EPOXY is a high solids, multi-purpose epoxy resin formulated to function as a primer, binder for aggregate or as a topcoat. Available in clear or pigmented this versatile resin allows for one product functionality in aggregate filled or coating applications where high chemical and UV resistance are not requirements.

#### ADVANTAGES

- Acceptable for use in USDA inspected facilities
- LEED compliant (<50 g/L VOC)
- Low viscosity
- One product on job site
- Good chemical & abrasion resistance
- Economical

#### TYPICAL USES

GENERAL POLYMERS 3569 MULTI-PURPOSE EPOXY can be used as the primer, binder and topcoat in decorative quartz and paint chip floors or in solid color slurry or mortar floor systems. Typical installations include manufacturing, warehouses, bathrooms, aisles, docks, food & beverage facilities, kitchens, slope to drain and many others. GENERAL POLYMERS 3569 MULTI-PURPOSE EPOXY is the ideal choice when a general purpose epoxy floor material is required.

#### LIMITATIONS

- Do not expose to water for a minimum of 72 hours, or can stain
- 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:** Clear, Steel Gray, Silver Gray  
**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:** 500 cps

#### Recommended Spreading Rate as a coating:

|  | Minimum  | Maximum   |
|--|----------|-----------|
| Wet mils (microns):                      | 10 (250) | 20 (500)  |
| ~Coverage sq ft/gal (m <sup>2</sup> /L): | 80 (2.0) | 160 (4.1) |

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

**Standard Cure Hardener:** @ 77°F (25°C)  
**To touch:** 6-8 hours  
**To recoat:** 10-24 hours  
**Light traffic:** 24 hours minimum  
**Full Cure:** 7 days

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

**Pot Life:** gallon mass 20 minutes @ 77°F (25°C)

**Fast Cure Hardener:** @ 77°F (25°C)

**To Touch:** 6 hours  
**To Recoat:** 8-16 hours  
**Light Traffic:** 18-24 hours  
**Full Cure:** 7 days

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

**Pot Life:** gallon mass 12 minutes

**Shelf Life:** Part A: 36 months, unopened  
Part B (Standard): 36 months, unopened  
Part B (Fast Cure): 18 months, unopened  
Store indoors at 50°F (10°C) to 90°F (32°C)  
**Flash Point:** 265°F (129°C), ASTM D 93, mixed

#### PERFORMANCE CHARACTERISTICS

| Test Name                                 | Test Method                           | Results   |
|---|---------------------------------------|---|
| <b>Abrasion Resistance</b>                | ASTM D 4060, CS17 wheel, 1,000 cycles | 80 mg loss  |
| <b>Adhesion</b>                           | ACI 503R                              | 400 psi concrete failure                                |
| <b>Compressive Strength</b>               | ASTM D 695<br>ASTM C 579              | 10,000 psi<br>12,000 psi with aggregate                 |
| <b>Flammability</b>                       |                                       | Self-extinguishing over concrete                        |
| <b>Hardness, Shore D</b>                  | ASTM D 2040                           | 80  |
| <b>Resistance to Elevated Temperature</b> | MIL-D-3134J Section 4.7.5             | No slip or flow at required temperature of 158°F (70°C) |
| <b>Tensile Strength</b>                   | ASTM D 638<br>ASTM C 307              | 5,000 psi<br>1,800 pis with aggregate                   |



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#### APPLICATION

##### APPLICATION INSTRUCTIONS

###### As Primer

1. Premix 3569A (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 4 parts 3569A (resin) to 1 part 3569B (hardener) by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform. Apply material using a 3/8" nap roller at a spread rate of 200-250 sq. ft. per gallon as a primer. Back roll with a spiked roller if necessary to help release entrapped air created from the mixing or application process.

NOTE\* After 20-30 minutes setup time, if required, spike roll coating to remove any entrapped air. Do not spike roll after 40 minutes.

###### As Topcoat

1. Premix 3569A (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 4 parts 3569A (resin) to 1 part 3569B (hardener) by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform. Apply material using a 3/8" nap roller at a spread rate of 80-160 sq. ft. per gallon as a topcoat. Back roll with a spiked roller if necessary to help release entrapped air created from the mixing or application process.

NOTE\* After 20-30 minutes setup time, if required, spike roll coating to remove any entrapped air. Do not spike roll after 40 minutes.

###### As Binder Resin for Mortar systems

1. Premix 3569A (resin) using a low speed drill and Jiffy mixer. Mix for one minute and until uniform, exercising caution not to whip air into the material.

2. Add 4 parts 3569 A (4 quarts resin) to 1 part 3569B (1 quart hardener) by volume. Mix with low speed drill and Jiffy mixer for three minutes and until uniform. Place mixed 3569 into mortar mixer. Slowly add 70 pounds of 5115 aggregate. Mix until aggregate is thoroughly "wet out". Immediately dump mortar onto substrate and screed to desired thickness.

3. Compact and smooth the mortar using a hand or power trowel. Allow to cure (Cure times vary depending on environmental conditions). Coverage rate - 32-34 sq. feet at 1/4"

###### As Binder Resin for Self-Leveling systems for opaque self-leveling systems or could use solid color

1. Premix 3569A (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 3569A (resin) to 1 quart 3569B (hardener). Mix with low speed drill and Jiffy blade for three minutes and until uniform. Slowly add up to 6 lbs 5350 Trafficote Filler and up to 13 lbs. of 5310 Dry Silica per 1.25 gallons of mixed epoxy. Mix with low speed drill and Jiffy blade for three minutes and until uniform and no lumps remain.

NOTE: 1 gallon of unpacked 5350 is approximately 6 lbs.  
1 gallon of unpacked 5310 is approximately 13 lbs.

3. Immediately pour the mixed material onto the substrate and pull out using a 1/4" v-notched trowel or 1/4" v-notched rubber squeegee. Mix will cover 53-55 square feet at 1/16", for non-skid broadcast to refusal with aggregate at a rate of 0.5 lbs per sq. foot to achieve 1/8"

#### ORDERING INFORMATION

##### Packaging:

Part A: 4 gallon (15.1L) container  
Part B: 1 gallon (3.78L) container

##### Weight:

10.8 ± 0.2 lb/gal; 1.29 Kg/L  
mixed, may vary by color

#### 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.

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.