



# Protective & Marine Coatings

## GENERAL POLYMERS® 3520 EPOXY TERRAZZO MATRIX

PART A  
PART B

GP3520  
GP3520B01

SERIES  
HARDENER

Revised September 23, 2014

### PRODUCT INFORMATION

#### PRODUCT DESCRIPTION

**GENERAL POLYMERS 3520 EPOXY TERRAZZO MATRIX** is the binder resin for THIN-SET EPOXY TERRAZZO #1100 SYSTEM, the most widely used thin-set terrazzo. GENERAL POLYMERS 3520's advanced formulation allows for the use of highly decorative brass strips and accents without the concern of discoloration. GENERAL POLYMERS 3520 EPOXY TERRAZZO MATRIX is a high solids binder resin. In addition, it possesses high physical strength, resistance to wear and chemical and stain resistance.

#### ADVANTAGES

- Distinctive appearance with unlimited design possibilities
- Rapid cure for faster project turnaround
- Chemical and high traffic wear resistance
- Available with an antimicrobial agent
- Acceptable for use in USDA inspected facilities

#### TYPICAL USES

**GENERAL POLYMERS 3520 EPOXY TERRAZZO MATRIX** is the binder resin in THIN-SET EPOXY TERRAZZO #1100 SYSTEM. Because of its high strength, it can be placed in relatively thin cross sections (1/4" to 3/8"), making the #1100 system well suited for both new construction and renovation projects. GENERAL POLYMERS 3520 EPOXY TERRAZZO MATRIX is solventless and can be placed within occupied facilities with minimal disruption. Its epoxy-based formula insures rapid project turnaround.

#### LIMITATIONS

- Slab on grade requires vapor/moisture barrier.
- 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 the Technical Service Department).
- When required, adequate ventilation shall be provided and proper clothing and respirators worn.
- All foodstuffs must be removed from the work area and areas subject to fumes during the installation and initial cure.
- Extinguish all sources of ignition during the entire installation cycle.
- 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

<b>Color:</b>	Standard Colors Computerized custom color matching available upon request
<b>Mix Ratio:</b>	4:1
<b>Volume Solids:</b>	97% ± 2%, mixed
<b>Weight Solids:</b>	98% ± 2%, mixed
<b>VOC (EPA Method 24):</b>	<50 g/L mixed ; 0.41 lb/gal

**Pot Life:** gallon mass 40 minutes @ 73°F (23°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)

**Flash Point:** 268°F (131°C), ASTM D 93, mixed

#### PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
<b>Abrasion Resistance</b>	ASTM D4060, CS17 wheel, 1,000 cycles	100 mg loss
<b>Adhesion</b>	ACI 503R	300 psi concrete failure
<b>Compressive Strength</b>	ASTM D 695	10,000 psi (68.9 MPa)
<b>Critical Radiant Flux</b>	ASTM E 648	0.90
<b>Flammability</b>		Self-extinguishing over concrete
<b>Flexural</b>	ASTM D 638	4,500 psi (31.0 MPa)
<b>Flexural Modulus</b>	ASTM D 638	500,000 psi (3445 MPa)
<b>Hardness, Shore D</b>	ASTM D 2240	85/65
<b>Indentation</b>	MIL-D-3134J	Withstands 2,000 lbs./sq./in. for 30minutes without indentation
<b>Resistance to Elevated Temperature</b>	MIL-D-3134J	No slip or flow at required temperature of 158°F (70°C)
<b>Tensile Strength</b>	ASTM D 638	3,000 psi (20.7 MPa)
<b>Water Absorption</b>	ASTM D 570	0.1%



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#### APPLICATION

- **APPLICATION INSTRUCTIONS (refer to Thin-Set Epoxy Terrazzo #1100 for complete instructions)**
  1. Premix 3520A (resin) using a low speed drill and Jiffy blade for one minute and until uniform, exercising caution not to whip air into the material.
  2. Add 4 parts 3520A (4 gallons resin) to 1 part 3520B (1 gallon hardener) by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform. Add 150 lbs. selected aggregate blend or other approved aggregates and 25 lbs. of 5270 Epoxy Filler per 5 gallons of mixed 3520 resin. Continue mixing until all aggregates are wet out.
  3. Immediately pour the mixed material onto the substrate and hand or power trowel in place.
  4. Allow material to cure 18-24 hours minimum.

#### 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.

#### ORDERING INFORMATION

Packaging:	
Part A:	1 gallon (3.8L) and 4 gallon (15.1L) containers 50 gallon (189.3L)
Part B:	1 quart (1.0L) and 1 gallon (3.8L) containers 5 gallon (18.9L) 50 gallon (189.3L)
Weight:	10.6 ± 0.2 lb/gal; 1.27 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.