

**Technical Data Sheet**



**3520**

**Epoxy Terrazzo Matrix**

**PRODUCT DESCRIPTION**

General Polymers 3520 EPOXY TERRAZZO MATRIX is the binder resin for General Polymers THIN-SET EPOXY TERRAZZO #1100 SYSTEM, the most widely used thin-set terrazzo. 3520's advanced formulation allows for the use of highly decorative brass strips and accents without the concern of discoloration. 3520 EPOXY TERRAZZO MATRIX is a high solids binder resin and has minimal odor during installation. 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

**TYPICAL USES**

General Polymers 3520 EPOXY TERRAZZO MATRIX is the binder resin in General Polymers 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. 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 50F. Substrate temperature must be least 5F 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.**

**TYPICAL PHYSICAL PROPERTIES @ 73F**

Color	Standard colors State of the art computer custom color matching available upon request Able to match NTMA Standard plates	
VOC (Volatile Organic Content)		
EPA Method 24		Compliant
SCAQMD Method 304		Compliant
Hardness, Shore D		85/65
ASTM D 2240		
Compressive Strength	10,000 psi	68.9 MPa
ASTM D 695		
Tensile Strength	3,000 psi	20.7 MPa
ASTM D 638		
Flexural	4,500 psi	31.0 MPa
ASTM D 638		
Flexural Modulus	500,000 psi	3445 MPa
ASTM D 638		
Water Absorption		0.1%
ASTM D 570		
Flammability		Self-Extinguishing over concrete
Critical Radiant Flux		0.90
ASTM E 648		
Resistance to Elevated Temperature		No slip or flow at required temperature of 158F
MIL-D-3134J		
Abrasion Resistance		100 mgs lost
ASTM D 4060, Type Wheel, CS17, 1,000 cycles		
Indentation		Withstands 2,000 lbs/sq. in. for 30 minutes without indentation
MIL-D-3134J		
Adhesion		350 psi
ACI 503R		(100% concrete failure)

## 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.

## STORAGE / APPLICATION

### • MATERIAL DELIVERY AND STORAGE

Store materials in accordance instructions, with seals and labels intact and legible. Keep resins, hardeners, and solvents separated from each other and away from sources of ignition. One year shelf life is expected for products stored between 50°F - 90°F.

### • APPLICATION 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.

## 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. All applicable federal, state, local and particular plant safety guidelines must be followed during the handling and installation and cure of these materials. Safe and proper disposal of excess materials shall be done in accordance with applicable federal, state, and local codes.

## 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 document 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(s) offered at the time of publication. Published technical data and instructions are subject to change without notice.

Consult [www.generalpolymers.com](http://www.generalpolymers.com) to obtain the most recent Product Data information and Application instructions.

## 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.

