



Protective & Marine Coatings

GENERAL POLYMERS® 3500 EPOXY QUICK PATCH

PART A
PART B

GP3500
GP3500B59

SERIES
HARDENER

Revised September 23, 2014

PRODUCT INFORMATION

PRODUCT DESCRIPTION

GENERAL POLYMERS 3500 PATCH SYSTEM is a two component, multi-purpose, fast cure, epoxy repair material. When mixed, the components thicken to provide an easy to apply paste for patching holes, cracks, depressions and other surface imperfections on a variety of substrates. The rapid curing material will provide a new flush surface ready for use or addition of protective coatings in 1-2 hours, dependent upon ambient temperature.

ADVANTAGES

- Eliminates job site use or addition of fumed silica
- Easy to mix, 1:1 ratio
- Non-shrinking, non-sagging
- Moisture tolerant
- Fast turnaround
- Acceptable for use in USDA inspected facilities

TYPICAL USES

GENERAL POLYMERS 3500 PATCH SYSTEM is designed for the repair and patching of floor and wall surfaces. It is suitable for use on masonry, wood, metal, fiberglass and plastic. The rapid cure and non-shrink properties of 3500 Patch provide a solid base for the application of additional protective coating systems.

LIMITATIONS

- **NOT** for use in expansion joints
- **NOT** for use in potholes or large depressions
- Do not apply over damp or wet surfaces
- Do not exceed ¾" thickness on vertical or overhead surfaces or product may sag
- Slab on grade requires vapor/moisture barrier
- Substrate must be structurally sound, and free of bond inhibiting contaminants.
- During installation and initial cure cycle substrate and ambient air temperature must be at least 55°F (15°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.
- **Strictly adhere to published mixing ratio.**

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:	Cement Gray
Mix Ratio:	1:1
Volume Solids:	97% ± 2%, mixed
Weight Solids:	98% ± 2%, mixed
VOC (EPA Method 24):	<50 g/L mixed; 0.41 lb/gal

Recommended Spreading Rate per coat:

Coverage sq ft/gal: 231 cu in / gal

Drying Schedule @ 8 mils (250 microns) wet:

To touch	1-2 hours
To recoat	2-4 hours
Pot Life:	2 gallon mass 10-15 minutes @ 73°F (23°C)

Shelf Life:	Part A: 36 months, unopened
	Part B: 36 months, unopened

Store indoors at 50°F (10°C) to 90°F (32°C)

Flash Point: >200°F (>93°C), ASTM D 93, mixed

PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
Abrasion Resistance	ASTM D4060, CS17 wheel, 1000 cycles	70-90 mg loss
Adhesion	ACI 503R	300 psi
Flammability		Self-extinguishing over concrete
Hardness	Shore D ASTM D 2240	75/80
Resistance to Elevated Temperatures	MIL-D-3134J	No slip or flow at required temperature of 158°F (70°C)



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APPLICATION

• APPLICATION INSTRUCTIONS

Caution: Keep away from children. 3500A contains epoxy resin which is harmful if swallowed. It may irritate the skin and cause sensitization and/or dermatitis. 3500 PATCH SYSTEM Part B (hardener) contains amine hardeners which are harmful if swallowed. Prolonged or repeated skin contact may cause burns, sensitization and/or dermatitis

Premix 3500 Part A (resin) using a low speed drill and Jiffy blade for one minute and until uniform.

Ratio: Mix 1 Part 3500A (resin) and 1 Part 3500B (hardener) thoroughly for one minute (make certain that material at the sides of container is stirred into the center). Working life of material is 10 - 15 minutes depending on ambient temperature and mixed mass size. Working with small batches is recommended.

APPLICATION:

Apply with a trowel, putty knife, or other firm edged tool. Work quickly, minor finish imperfections can be sanded or ground flush in 1 - 2 hours. Note: Must sand prior to applying finish coat.

CURING:

Near ultimate physical properties are normally attained after 2 hours at room temperature.

ORDERING INFORMATION

Packaging:

Part A: 0.5 gallon (1.9L)
Part B: 0.5 gallon (1.9L)

Weight: 12.5 ± 0.2 lb/gal; 1.50 Kg/L

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.