

Technical Data Sheet



3500

Patch System

PRODUCTION DESCRIPTION

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
- -0- VOC
- Moisture tolerant
- Fast turnaround

TYPICAL USES

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 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 55F. Substrate temperature must be least 5F 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.**

TYPICAL PHYSICAL PROPERTIES @ 73F

Mix Ratio A:B (by volume)	1:1
Color	Cement Gray
Solids, by volume	100%
VOC (Volatile Organic Content) EPA method 24, Modified SCAQMD Method 304	Compliant Compliant
Coverage	231 cu. in. per gallon
Pot Life, 2 gallon mass @ 73F ASTM D 2471	10 -15 min
Abrasion Resistance ASTM D 4060 CS-17 Wheel, 1,000 cycles	70-90 mgs lost
Resistance to Elevated Temperatures MIL-D-3134J	No slip or flow at required temperature of 158F
Adhesion ACI 503R	350 psi (100% concrete failure)
Hardness, Shore D ASTM D 2240	75/80
Flammability	Self-extinguishing over concrete

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

- 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

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

Pre Mix 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.

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.

CURING:

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

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

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Consult www.generalpolymers.com to obtain the most recent Product Data information and Application instructions.

Warranty

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