

TUFFPATCH CR

PRODUCT #608

Chemical Resistant Concrete Patch Kit

PRODUCT DESCRIPTION

TuffPatch CR is a three (3) component, 100% solids, 100% reactive novalac type epoxy concrete patch kit, with excellent resistance to a wide range of dry and liquid chemicals including exposures in many submersible applications. **TuffPatch CR** provides the ultimate protection from aggressive chemicals on interior as well as exterior applications; and can be applied on dry or moist substrates at temperatures down to 5°C (45°F). **TuffPatch CR** meets VOC regulations, and has no offensive odors during installation.

USES

Typical uses include:

- Pulp and paper processing
- HAZMAT facilities
- Chemical processing plants
- Textile processing mills
- Photo processing facilities
- Primary and secondary containment areas
- Harsh processing environments
- Chemical storage areas

TYPICAL PHYSICAL PROPERTIES

	TuffPatch CR
Physical Characteristics	608
Pot Life	75 min.
Cure Time 77 Degrees F. @ 1/2"	4.5 hrs.
Bond Strength ACI 503	>350 100% con. failure
Impact Resistance ASTM D2794	160 in./lbs

Viscosity 77 Degrees F.	800-1200 cps
Viscosity 60 Degrees F.	2000-3000 cps

Compressive Strength ASTM D695 PSI 7 Day Cure Aggregate Filled	8,000
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Coverage	
1/8"	36 sq.ft.
1/4"	18 sq. ft.
1/2"	9 sq. ft.

ADVANTAGES

- A chemically resistant surface, even in many submersible applications
- Suitable for exterior or interior applications
- No VOC's
- No offensive odor during installation
- Can be applied over dry or moist surfaces
- Meets USDA guidelines
- Convenience packaging
- No minimum patch depth requirements

LIMITATIONS

- Exposure to high concentration of Acids and Solvents
- Some chemicals at elevated temperatures
- Only available in normal cure

COLOR AND TEXTURES

- Available in Tile Red, Medium Gray and Straw (natural)

PRODUCT APPLICATION

Surface Preparation:

The concrete substrate must be clean, sound and free of dust or standing water. Remove all curing compounds, coatings, loose concrete and debris by abrasive grinding or chipping. For best results, saw cut edges of patch area to a depth of 1/4". Where oil or grease build-up is present, the surface must be degreased with a comparable degreaser/emulsifier product to remove oil contaminants. If contaminants

continue to exist after repeated cleanings, additional concrete must be removed to reach clean sound substrate material.

Priming the Surface:

After the surface has been properly cleaned and has dried sufficiently, prime the surface with a mixture of neat epoxy resin (Component A and B mixed but without aggregate). Do this by removing the sand from the five (5) gallon container, then pour both A and B component into five (5) gallon and mix at low speed with a drill and mixing paddle for three (3) minutes. Remove a small portion and prime the surface to be repaired with the blended mix. Apply using a brush to avoid leaving puddles of resin on the surface

Patching the Surface:

Slowly blend the pre-measured sand into the remaining mixed epoxy resin. Mix materials for two – four (2-4) minutes or until the aggregate is uniformly blended with the resin. Spread the blended mortar mix over the primed surface and compact material to desired thickness. Finish or “close” with a trowel to desired texture. Keep a clean trowel. Clean with mineral spirits.

Temperature Effect:

Material (epoxy/sand), ambient and substrate temperatures impact the working time and overall cure time of the product. For best results, the temperature of the material and substrate should be between 75°F and 85°F. Higher temperatures will decrease the pot life, placement time and cure time. Conversely, patches placed at approximately 20°F lower temperature will require twice as long to cure

Disposal:

Dispose in accordance with local and state regulations.

CHEMICAL RESISTANCE

Refer to Separate Product Chemical Resistance Charts, or for specific product applications, contact your local Thermal-Chem representative.

PRODUCT AVAILABILITY

Products are manufactured and available through the Thermal-Chem Corporation, 2120 Roberts Drive, Broadview, IL 60155 U.S.A.

Tel: 800/635-3773 ■ 847/288-9090

Fax: 847/288-9091

E-Mail: sales@thermalchem.com

Website: www.thermalchem.com

TECHNICAL/SPECIFICATION SERVICES

Additional Product Data, complete Technical Support and Product Specifications are all available through Thermal-Chem Corporation; or their local representatives.

Every reasonable precaution and effort has been taken in the manufacturer of all Thermal-Chem products to comply with the published product data. Actual product performance may vary slightly due to environmental influences and/or conditions.

PRODUCT HANDLING

Read the Material Safety Data Sheet thoroughly before use.

Warning: For professional use only. Avoid contact of uncured material with skin and eyes. Contact with skin may result in irritation. Wash skin with soap and water. If contact with eyes should occur, flush with water for 15 minutes and seek immediate medical attention.

LIMITED WARRANTY

Thermal-Chem Corporation warrants its product to be of good quality and will replace any product proved defective. Satisfactory results depend not only upon quality products but also upon many factors beyond our control. Therefore, except for such replacement, **THERMAL-CHEM CORP. MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR**

MERCHANTABILITY, RESPECTING ITS PRODUCTS, and Thermal-Chem Corporation shall have no other liability with respect thereto, including without limitation, liability for incidental or consequential damages. Any claim regarding product defect must be received in writing within one hundred and eighty (180) days from the date of shipment. No claim will be considered without such written notice or after the specified time interval. The user shall determine the suitability of the products for the intended use and assume all risks and liability in connection therewith.