

TUFFPATCH VS

PRODUCT #602

Vertical and Overhead Concrete Patch Kit

PRODUCT DESCRIPTION

TuffPatch VS is a pre-proportioned three (3) component 100% solids, non-shrink epoxy polymer patch kit designed for vertical and overhead applications.

TuffPatch VS may be applied on dry or moist surfaces at temperatures down to 40°F is ideal for interior and exterior applications. **TuffPatch VS** is a proven performer that contains no VOC's, meets USDA guidelines and provides excellent impact and abrasion resistance along with good chemical resistance for most general applications. **TuffPatch VS** is identical to **TuffPatch MP 600** but in a light gel consistency. With the addition of properly blended aggregate, **TuffPatch VS** is ideal for exterior and interior vertical and overhead patching applications. Particle shape and gradation of aggregate are important factors in developing a balanced mix that will "hang" and "close". For best results always use the sand that is included with the kit.

USES

Typical uses for **TuffPatch VS** include any vertical or overhead patching in virtually all industrial or commercial environments.

TYPICAL PHYSICAL PROPERTIES

Physical Characteristics	TuffPatch VS 602
Pot Life (Mixed at 72°F)	30 min.
Cure Time 72 Degrees F. @ 1/2"	2 hrs.

Bond Strength ACI 503	>350 psi 100% con. failure
Impact Resistance ASTM D2794	160 in./lbs
Viscosity 77 Degrees F.	gel
Compressive Strength ASTM D695 PSI 7 Day Cure Aggregate Filled	12,500
Coverage	
1/8"	34 sq.ft.
1/4"	17 sq. ft.
1/2"	8 sq. ft.

ADVANTAGES

- Vertical and overhead patching will "hang" at 1/2" to 1" per lift when mixed with the proper aggregate
- Meets USDA guidelines
- No offensive odor during installation and meets VOC regulations
- Non-shrink or expandable formulations
- Protects concrete from attack intrusion of chemicals, water and other harmful liquids
- Non-flammable
- Can be applied to dry or moist surfaces

LIMITATIONS

- Do not thin with solvents
- Must prime the surface

COLORS 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 ¼". Where oil or grease build-up is present, the surface must be degreased with a 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. Apply with steel trowel to completely fill area to be patched. Deeper patches should be done in at least two passes. Keep a clean trowel. Clean with mineral sprits.

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.

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.