

# TUFFPATCH UF

## PRODUCT 606

**VERY FAST SETTING  
URETHANE/POLYUREA CONCRETE REPAIR  
MATERIAL**

### PRODUCT DESCRIPTION

**TuffPatch UF** is a two-component, 70% solids, very fast setting, ultra low viscosity, and high strength urethane/polyurea concrete repair material. **TuffPatch UF** is formulated to use in combination with clean dry sand for quick turn-around repairs on spalled and deteriorated concrete. Its quick build of compressive strength permits heavy forklift traffic in just minutes after placement. The product's low viscosity (24 cps) allows penetration into hairline cracks and sand fillers resulting in excellent adhesion to concrete.

Formulated for use in either interior or exterior applications, **TuffPatch UF** can be applied to 20° F and up to 90° F on **dry substrates ONLY**.

### USES

- Fill and repair spalls and non-moving cracks prior to applying seamless floor coatings.
- Rebuild spalled control joints
- Grade transitions
- Patch and Grout Replacement in:
  - Warehouses
  - Chemical plants
  - Manufacturing and printing plants
  - Food processing and pharmaceutical facilities
  - Auto service areas and parking garages

### ADVANTAGES

- Easy to use (eliminates need for bucket mixing)
- Can be applied down to 20°F
- Builds compressive strength rapidly
- Ultra low viscosity with excellent wetting and penetrating capabilities
- Supports heavy traffic loads in 15 minutes
- Quick turn-around service time

- Self-priming on virtually all concrete substrates
- Meets USDA requirements
- Low odor

### LIMITATIONS

- Cannot be applied to moist substrates
- Limited shelf life after container is opened
- Will discolor if exposed to sunlight

### TYPICAL PHYSICAL PROPERTIES

Physical Characteristics	TuffPatch UF 606
Pot Life Mixed @ 77°F	3-5 min
Cure Time 77 Degrees F @ 1/2"	15 min
Bond Strength ACI 503	>350 psi 100% con. failure
Compressive Strength ASAM C579	4800
Viscosity @ 77°F	24 cps
Solids	70%
VOC grams/liter	5 g/l
Coverage 1/4"	11 sq. ft.
Approximate minimum application temperature	<ul style="list-style-type: none"> <li>▪ Product @ 70°F with substrate at 20°F = cure time = 45 minutes</li> <li>▪ Product @ 70°F with substrate at 50°F = cure time = 20 minutes</li> </ul>
Maximum application temperature	<ul style="list-style-type: none"> <li>▪ Product and substrate at 90°F = cure time approx. 3 to 5 minutes</li> </ul>

## COLORS AND TEXTURES

- Available in Charcoal Gray

## PRODUCT APPLICATION

**TuffPatch UF** is applied in six easy steps:

- Clean the area to be repaired
- Vacuum and remove all debris
- Fill repair area with silica sand
- Mix **TuffPatch UF**
- Saturate the silica sand with **TuffPatch UF**
- Clean up overfill

### 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 blasting or chipping. For best results, sawcut the edges of the area to be patched to a depth of 1/4". Where oil or grease build-up is present, the surface must be degreased with a degreaser/emulsifier product to remove all contaminants. If contaminants continue to exist after repeated cleanings, additional concrete must be removed to reach clean, sound substrate material. Warning: TuffPatch UF is moisture sensitive and should not be applied to wet or moist surfaces.

### Mixing and Patching:

Make sure shallow patches and shallow cracks are filled with sand and the work area is clean and void of tools and equipment before mixing the material. Pour EQUAL amounts of component A and Component B into two (2) separate mixing vessels. Pour component B into component A vessel. Mix for approximately 15 to 20 seconds. Pour **TuffPatch UF** over the sand until it is completely saturated with a slight amount of free material on top. Sprinkle a small amount of sand to absorb the excess material. The pot life, or usable working time, of the mixed material is approximately three (3) minutes. Do not mix more material than can be used in three (3) minutes.

**TuffPatch UF** is a very low viscosity material with excellent "wetting" and does not require priming on most surfaces.

When repairing cracks or patches deeper than two (2)" always apply **TuffPatch UF** liquids first, then apply a 1 to 2 inch layer of sand and alternate liquids and sand until reaching finished grade level. Combinations of sand and clean, washed dry pea gravel may be used on deeper patches.

### Finishing:

Scrape off any excess material with a squeegee before it cures. Allow the material to cure 12 to 18 minutes and grind smooth.

Clean up tools and surrounding area quickly before the material cures.

### Disposal:

Dispose in accordance with local and state regulations.

## PRODUCT STORAGE and HANDLING

Store in unopened containers at less than 85°F and out of direct sunlight. Shelf life of unopened container is approximately nine (9) months; an opened container is approximately two (2) weeks.

## 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. Wear protective shirts or overalls, rubber gloves, boots and safety glasses. Follow all application instructions and use only in manner specified. Do not use near high heat or open flame. Do not take internally and keep out of reach of children.

### FIRST AID

Eye Contact: Flush with plenty of water for 15 minutes and seek immediate medical attention.

Skin Contact: Remove contaminated clothing and wash contact area with soap and water for 15 minutes.

Ingestion: If appreciable quantities are swallowed, seek medical attention immediately.

Inhalation: In case of exposure to high levels of vapor or mist, remove person to fresh air. If breathing has stopped, administer artificial respiration and seek medical attention immediately.

### 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 ■ 847/229-9090

Fax: 847/288-9091

E-Mail: [sales@thermalchem.com](mailto:sales@thermalchem.com)

Web Site: [www.thermalchem.com](http://www.thermalchem.com)

### TECHNICAL/SPECIFICATION SERVICES

Additional Product Data, complete Technical Support and Product Specifications are all available through the 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 published product data. Actual product performance may vary slightly due to environmental influences and/or conditions.

### 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**

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