

TuffPatch

FP 604 Food Processing

Polyurethane Flooring System

PRODUCT DESCRIPTION

TuffPatch FP 604 is a three (3) component, polyurethane flooring system for medium to heavy-duty use interior applications. Its chemical composition of water emulsified polyurethane combined with cement and silica sand, produce properties that exceed those of concrete while delivering the ultimate resistance to thermal shock and the ability to withstand high temperatures up to 230^oF. These properties when combined with excellent chemical resistance, impact resistance and zero VOC's makes ThermalCrete the preferred choice for virtually all heavy-duty industrial floors.

TuffPatch FP 604 is applied as a trowel system without a top coat

USES

Typical uses for the **TuffPatch FP 604** systems include:

- Food and Beverage Plants
- Commercial kitchens
- Floors subjected to impact and abrasion
- Food processing facilities
- Pharmaceutical facilities
- Meat, poultry and dairy processing facilities
- Bakeries

- Laboratories

And, wherever the following flooring properties are a requirement:

- Slip-resistant surface
- Increased ease of maintenance
- Durability and sanitary protection

TYPICAL PHYSICAL PROPERTIES

Physical Characteristics	TuffPatch FP 604
Pot Life Mixed @ 72 ^o F	25 Min.
Cure Time @ 72 ^o F	
Recoat	3 Hours @ 72 ^o F
Foot Traffic	4 Hours @ 72 ^o F
Full Service	24 Hours @ 72 ^o F
Compressive Strength	
ASTM C 579	6900
Bond Strength	100% Concrete Failure
ACI 503	
Tensile Strength	
ASTM D 638	1040
Density	130 Lbs.
ASTM C 905	

ADVANTAGES

- Good resistance to many common chemicals
- Excellent resistant to thermal shock

- Fast Cure resulting in minimal downtime
- Provides a highly durable and protective flooring system
- No solvents and offensive odors during installation
- Accepted for use in USDA inspected facilities
- May be installed on moist substrates
- Impact resistant

LIMITATIONS

- Direct sunlight will cause discoloration
- Do not apply below 40° F
- Do not apply to floors with vapor drive
- Must precondition materials to 70° F when installing below 55° F

COLOR and TEXTURES

- Available in three (3) standard colors – Tile Red, Pewter Gray (Medium Gray) and Charcoal Gray (Dark Gray)
- Various slip-resistant textures available

PRODUCT APPLICATION

The mix ratio of **TuffPatch FP 604** is critical. The kit contains pre-measured Components A, B and Aggregate (Part C). Do not alter any of these ratios.

Warning: The amount of Cement and Lime is important to insure designed physical properties - Use the proper Part C aggregate.

Surface Preparation

- **TuffPatch FP 604** must be applied to clean sound concrete free of oils, fatty acids and old coatings.
- Repair the concrete as required
- For large patches scarify at 1/16" to 1/8" in two directions **OR** abrasive blast the surface to remove all laitance and surface contaminants and saw-cut 1/8" deep grooves every 12" over the entire surface.
- For smaller patches, saw cut at least 1/4 inch deep around the area to be patched. Use chipping hammer to remove all loose concrete.
- Do not feather patches. Always "key them in".
- Pre-fill all small voids that may trap air and cause bubbles
- Refer to the Thermal-Chem Surface Preparation Guide for additional for additional surface preparation information.

Application

Each part is pre-measured.

- Mix Part A and Part B thoroughly for 2 minutes. Then slowly pour Part C into Mixed A and B while mixing.
- Add pre-measured dry pigment packs.
- Mix at low speed. Do not "whip" air into the mix.
- Do not mix more material than can be applied in 15 – 20 minutes

- Pour out some mixed Part A and B (before adding Part C) and prime at 200 sq. ft. gallon.
- Screed material and hand trowel

Coverage

14 square feet at 1/4 inch deep.

Maintenance

- Inspection and proper cleaning will extend the useful service life to the floor system. The floor may be cleaned using hot water and most cleaning chemicals.

Chemical Resistance

Refer to the Thermal-Chem Chemical Resistance Chart

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 the Thermal-Chem Corporation or their local representatives.

Every reasonable precaution and effort has been taken in the manufacture of all Thermal-Chem products to comply with the published product data. Actual product performance may vary slightly due to environmental influences and/or job site 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, at Thermal-Chem's sole discretion, replace or refund the original purchase price (if payment was made in accordance with Thermal-Chem's payment and credit terms) of any product proved defective or non-conforming. Satisfactory results depend not only upon quality products but also upon many factors beyond our control. **THE PARTIES AGREE THAT THE REPLACEMENT OR REFUND OF PRODUCT PAYMENT FOR DEFECTIVE PRODUCT OR NON-CONFORMING GOODS IS THE SOLE AND EXCLUSIVE REMEDY.** Therefore, except for such replacement, **THERMAL-CHEM CORP. MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING**

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