

# FIBFLOOR (TC)

## Latex Modified Patch Kit

### DESCRIPTION

FIBFLOOR (TC) is a latex modified cementitious product designed for use as a concrete repair mortar at thickness of up to ½ "(13 mm). It is formulated to incorporate liquid latex technology, which provides excellent durability under freeze-thaw cycling as well as protection against ingress by water and de-icing salts. FIBFLOOR (TC) is easy to work with at a high slump consistency and provides a fast setting abrasion resistant repair.

### AREAS OF APPLICATION

- Parking Decks
- Floors
- Docks
- Marine Structures
- Ramps
- Joints
- Curbs and Gutters
- Pavements and Walkways

### FEATURES & BENEFITS

- Provides a strong, wear resistant patch.
- Excellent durability under freeze/thaw cycling.
- Resists penetration of water and de-icing salts for good substrate protection.
- Excellent bond to properly prepared sound concrete.
- Easy to use two part system.
- Suitable for both indoor and outdoor use.

### SPECIFICATIONS & COMPLIANCES

- FIBFLOOR (TC) attains a bond strength in compliance with ASTM C 1059-86 Type II Systems.
- FIBFLOOR (TC) has been approved for use by the Ohio EPA for contact with drinking water supplies.

### TECHNICAL SPECIFICATIONS

#### COMPRESSIVE STRENGTH 50 mm) cubes

1 day	:	21 MPa
3 days	:	28 MPa
7 days	:	38 MPa
28 days	:	48 MPa

#### FLEXURAL STRENGTH

28 days	:	11 Mpa
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#### BOND STRENGTH

14 days	:	10 MPa
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**UNIT**

20

**WEIGHT**51 kg/m<sup>3</sup>**APPEARANCE**

FIBFLOOR (TC) is a free flowing powder designed to be mixed with white latex liquid (FIBFLOOR (TC) Liquid). After mixing and placing, the colour may initially appear somewhat darker than the surrounding concrete. While the colour will lighten up substantially as the FIBFLOOR (TC) cures and dries out, the repair may always appear somewhat darker than the surrounding concrete. This product is designed for finishing with float or broom appearances. A steel trowel finish may be applied but timing of the final trowel is critical and the contractor may have difficulty achieving a smooth finish over a large area.

**APPLICATION METHODOLOGY****PREPARATION**

New concrete must be a minimum of 28 days old if an epoxy adhesive will be used to the topping. If a slurry bond coat is used, the concrete must be a minimum of 3 days old. The concrete must be clean and rough. All oil, dirt, debris, paint and unsound concrete must be prepared mechanically, which will give a surface profile of exposed coarse aggregate of the concrete. The final step in cleaning should be the complete removal of all residues with a vacuum cleaner or pressure washing. Acid etching is acceptable only when mechanical preparation is impractical.

**NOTE:** Use of an epoxy bonding agent is strongly recommended if acid etching will be used to create the surface profile. All concrete must possess an open surface texture with all curing compounds and sealers removed.

**BONDING**

**After the surface has been prepared, prime all area with either a slurry coat of FIBFLOOR (TC) or a bonding agent such as FIB CORR-BOND .**

**NOTE:** If the substrate has been prepared by acid etching, use of epoxy primer is highly recommended. The primer bonding agent must be ordered separately.

**SLURRY COAT**

Mix FIBFLOOR (TC) as instructed but add an additional water per unit of the mix to achieve slurry consistency. Broom the slurry coat on to the prepared and pre-dampened concrete. Apply the FIBFLOOR (TC) topping before the slurry coat has dried.

**JOINTS AND EDGES**

Edges should be saw cut to ¼ " (6 mm) deeper than the topping thickness and the floor should be notched at the edge of repair to provide a locked in, reinforced edge. Expansion joints should be brought up through the repair by saw cutting or with the use of divider strip.

**EPOXY PRIMER**

Use FIBSET 412 epoxy adhesive for repairs.

**NOTE:** For extended working time, epoxy type bond strengths, and/or corrosion protection of reinforcing steel, use CORR -BOND cement/epoxy compound as a bonding agent and a protective coating for re-bar.

**MIXING**

Small quantities of FIBFLOOR (TC) may be mixed with a drill and "jiffy" mixer. Use a paddle type mortar mixer for large jobs. Add the appropriate amount of water for the batch size and then add the dry product. Mix a minimum of three minutes. The mixed product should be transported to the repair area and placed immediately.

## PLACEMENT

Discharge material from mixer and place onto floor. For patching, spread with a trowel, come-a-long, or square tipped shovel to a thickness that matches the surrounding concrete. Finish by hand troweling.

## FINISHING

Finish the repair material to the desired texture. Do not add additional water to the surface during the finishing operation. If additional liquid is required, use FIBFLOOR (TC) liquid .

## CURING & SEALING

To prevent surface cracking, cure the floor with a high solids curing compound, such as Super Rezseal. (Note: A solvent based curing compound should not be used on this product.) In hot, windy or direct sunlight situations, re-wet the surface after the curing compound has dried and cover with polyethylene for a minimum of three days. If curing compound is not desired, wet cure for a minimum of three days.

## CLEAN UP

Clean tools and equipment with water before the material hardens.

## PRECAUTIONS

- Store in a dry place above freezing.
- Keep liquid and powder off of skin and out of eyes.
- Wear protective clothing and eyewear.
- May not be suitable as an overlay for abusive traffic. Use FIBFLOOR (TC) Supreme or FIBFLOOR (CC) Supreme.
- Do not use material at temperature below 7oC
- No heavy traffic until the product has cured.
- Keep repair from freezing until a minimum strength of 7 MPa is reached.

## PACKAGING / YIELD

FIBFLOOR (TC) is unit containing 8.2 kg of FIBFLOOR (TC) powder and 1.8 litre of FIBFLOOR (TC) Liquid. One unit of FIBFLOOR (TC) will cover approximately 1.0m<sup>2</sup> when placed at an average depth of 6 mm thickness.

Note: This product may require a separately sold primer and curing compound.

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