

CEMFLOOR FTC

Fast Set Patching Concrete

TECHNICAL

The **Cemfloor FTC** range is formulated using a blend of special cements and approved admixtures. They do not contain metallic aluminium, iron or carbon and are chloride free, therefore eliminating the problems of corrosion or staining. Complies with Highways Agency Specification for Highway Works.

PREPARATION

Apply the **Cemfloor FTC** to sound, clean, uncontaminated, dust free surface. Concrete should be roughened to provide a good key. Metal surfaces must have rust and scale removed and be free from oil, grease and paint. Edges of repair should be disc cut to provide a straight edge and must be at least a minimum depth. (See product selection table)

PRIMING

Before commencing the priming operation remove any dust by vacuum or brush. The concrete/masonry surface should then be thoroughly soaked with water.

Ensure any surplus water is removed before priming with **Cemprime SP**. Mix components as per instructions and scrub well into substrate. Do Not Allow The Primer Slurry To Dry Out.

- ◆ Hot temperature accelerate
- ◆ Cold Temperatures retard.

MIXING

Add the prescribed amount of clean water to a free fall mixer or mixing vessel and slowly add the entire contents of the bag. Mix for 3 minutes, the final mixed material should be a firm concrete consistency.

Cemfloor FTC 4mm – add 2.5 – 2.76 litres of clean water

Cemfloor FTC 10mm – add 2.0 – 2.5 litres of clean water.

• Please Note:

It is vital that products are not over watered. If over watered the product will be an under-strength product with an increased risk of cracking. When adding water start with the minimum amount and only add more to achieve the ideal consistency. Do not part mix.



A range of fast setting concrete to accommodate small and large volume repairs, 10mm – 150mm in depth.

- ◆ Conforms to Clause 1704.6 Control of Alkali Silica Reaction
- ◆ High early strengths
- ◆ Economical
- ◆ Proven track record
- ◆ Can be opened to foot traffic after 4 hours, dependant upon temperature.
- ◆ Manufactured under a Quality Assurance Scheme BS EN ISO 9002: 1994

RECOMMENDED APPLICATIONS

- ◆ Car-parks.
- ◆ Airports.
- ◆ Warehouses
- ◆ Bridge deck repairs

Setting new standards in cement, resin and bitumen based products.

TECHNICAL ADVISORY SERVICE

Instarmac Group plc provides on site consultancy and technical assistance. We are delighted to work closely with Specialist Contractors.

PLACING

The mixed material should be applied firmly onto the primed surface to ensure positive adhesion, paying particular attention to edges and thin sections. The surface may be closed using a steel float, or trowel.

CURING

Cemfloor FTC should be cured using **Cemcure AR** sprayed liberally over the surface immediately after finishing.

CLEANING

Cemfloor FTC should be removed from tools and equipment with clean water immediately after use. Cured material can be removed mechanically, or by acid etching.

HEALTH & SAFETY COSHH REGULATIONS

This product contains cement which, when mixed with water is alkaline and may cause skin irritation. Operatives should wear protective clothing and work in well-ventilated conditions.

If product enters the eyes, wash thoroughly with clean water. If discomfort continues seek medical advice. In common with all powder products, the material should be mixed carefully avoiding the raising of dust.

PHYSICAL PROPERTIES

Test Carried Out	Test Age	FTC4mm	FTC 10mm
Compressive Strength N/mm ² BS 1881: Part 116: 1983	4 hours	13N/mm ²	10N/mm ²
	24 hours	17N/mm ²	15N/mm ²
	7 days	50N/mm ²	35N/mm ²
	28 days	64N/mm ²	50N/mm ²
Flexural Strength N/mm ² BS 4551: 1980	7 days	3.4N/mm ²	3.2N/mm ²
	28 days	4.1N/mm ²	4.0N/mm ²
Tensile Strength N/mm ² BS 6319: Part 7: 1985	7days	2.6N/mm ²	2.4N/mm ²
	28 days	4.0N/mm ²	4.0N/mm ²
Shrinkage/Expansion		Negligible	
Fresh Wet Density		2.200kg/m ³	
Moisture Content @ 24Hrs 12mm Depth @ 20°C		<4%	
Working Time		20 minutes	
Initial Hardness		1 Hour	50 minutes
Please note Cold temperatures reduce strength Hot temperatures accelerate			

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PRODUCT SELECTION

Repair Depth	Product
10mm – 50mm	Cemfloor FTC 4mm
40mm – 150mm	Cemfloor FTC 10mm

Large section repairs between 40 – 50mm it is advisable to use Cemfloor FTC 10mm. Always ensure minimum depths are maintained.

Packaging	Cemfloor FTC is supplied in 25kg polythene lined bags. Note: Cemfloor FTC 10mm is supplied as a two component uni with a poly outer bag.
Shelf Life	Store in a cool dry place at temperatures between 5°C - 35°C. Shelf life in correct conditions for sealed bags is 6 months. High temperatures and high humidity will lead to a reduced shelf life.
Coverage	One bag covers - 1m ² @ 12.5mm (Theoretical)
Yield	Cemfloor FTC 4mm & 10mm = 12.5 Litres One bag + 1m ² @ 12mm depth
Colour	Cement Grey

TEST RESULTS

All published test results were accomplished by independent NAMAS or government approved laboratories. Copies of test results are available on request.

ANCILLARY PRODUCTS

- ◆ **Cemprime SP**
Slurry primer
- ◆ **Cemcure AR**
Acrylic Primer

RELATED PRODUCTS

- ◆ **Cemfloor IT**
Self-Smoothing
Industrial Topping
- ◆ **Ultracrete FP1**
Rapid Set Repair Kit

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Having saw cut the repair area, pre-soak, then remove any ponded water. Follow this by priming with Cemprime SP slurry primer.



Pour in mixed material, and level off the surface.



Float finish the surface and cure using Cemcure AR Acrylic curing membrane.



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