



# FTC

## Fast Set High Strength Repair Concrete

### Applications

Ultracrete FTC is a high strength, fast set concrete, suitable for small and large section reinstatements to car parks, airports, warehouses and bridge decks. With an initial set of 1 hour, the product can accommodate depths from 10-50mm (up to 100mm in pockets).

### Technical

Ultracrete FTC is supplied in a 4mm aggregate formulated using a special blend of both aggregates and cements. The product does not contain metallic aluminium, iron or carbon and is chloride free, therefore eliminating the problems of corrosion and staining. Ultracrete FTC complies with the Highways Agency Specification for Highway Works, clause 1704.6 Control of Alkali Silica Reaction.

### Preparation

Apply Ultracrete FTC to a sound, clean surface free from contaminants and dust. The substrate should be roughened and scabbled to provide a good bond key. Metal surfaces or reinforced steel must be drained so that all rust and scale is removed. These should also be free from oil, grease and paint. It is essential that the repair edges are saw cut square to a minimum depth of 10mm. Feather edging is not recommended.

### Priming

Remove any dust by vacuum or brush prior to commencing the priming operation. The concrete/masonry surface should then be thoroughly soaked with water. Ensure any surplus water is removed before priming with Ultracrete SP Slurry Primer. Mix components as per instructions below and scrub well into the substrate. Do not allow the slurry primer to dry out.

### Mixing

Add 2.5 litres of clean water to a freefall mixer or mixing vessel and slowly add the entire contents of the bag. Mix for 3 minutes. The final mixed material should have a firm concrete consistency. Note: Do not over water; only add up to 0.27 litres to achieve the ideal consistency.

### Placing

Place the mixed material onto the primed and dampened surface to ensure positive adhesion, paying particular attention to edges and thin sections. Level up to the surface and finish using a steel float or trowel to close up the surface and seal the edges.

### Curing

Ultracrete FTC should be cured using Ultracrete AR sprayed liberally over the surface, immediately after use.

### Health & Safety

Operatives should wear protective clothing and work in well-ventilated conditions. This product contains Portland cement which, when mixed with water is alkaline and may in some cases cause skin irritation. If product enters the eyes, wash thoroughly with water and seek medical advice. In Common with all powder products, the material should be mixed carefully, avoiding the raising of dust. For an updated Material Safety Data Sheet please visit [www.instarmac.co.uk](http://www.instarmac.co.uk)



### Features & Benefits

- Rapid setting concrete with a 15-20 minute working time to enable good workmanship and increased productivity.
- Can be opened to foot traffic in 2 hours and vehicular traffic in 4 hours saving downtime for repairs and minimising congestion.
- The material is fibre reinforced enabling excellent tensile strengths, which means this is suitable for trafficked areas.
- Excellent moisture content results after 24 hours, which means early application of waterproofing membranes, are possible



### Related Products

**Ultracrete EP-R9** Epoxy Bedding & Concrete Repair Mortar  
**Ultracrete SP** Slurry Primer

continued



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### Physical Properties Ultracrete FTC 4mm (previously Cemfloor FTC)

Test Age	Compressive Strength* (N/mm <sup>2</sup> )	Tensile Strength* (N/mm <sup>2</sup> )	Flexural Strength* (N/mm <sup>2</sup> )
4 hours	13.0	–	–
24 hours	17.0	–	–
7 days	50.0	2.6	3.4
28 days	64.0	4.0	4.1

Shrinkage/Expansion	Negligible
Fresh wet density	2.200kg/m <sup>3</sup>
Moisture content	<4%
Workability	20 minutes **
Set time	60 minutes **

\*At 24 hrs 12mm depth at 2°C

\*\*Depending on temperatures – test carried out at 20°C. Cool temperatures retard, warm temperatures accelerate

### Product Details

Unit/Packaging	25kg bags delivered on polythene shrink-wrapped pallets
Storage	This product must be stored in unopened bags, clear of the ground in cool dry conditions and protected from excessive drafts at temperatures between 5°C and 30°C. If stored correctly and used within 6 months of the date shown on the bag, the activity of the reducing agent will be maintained and this product will contain, when mixed with water, no more than 0.0002% (2 ppm) soluble Chromium (VI) of the total dry weight of the cement
Shelf Life	Shelf life in correct conditions for sealed bags is 6 months. High temperatures and high humidity will lead to a reduced shelf life
Coverage	1 bag covers 1m <sup>2</sup> at 12.5mm depth (approximately)
Yield	12.5 litres (approximately)
Colour	Grey

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