



Specialist Construction Supplies for Repair, Maintenance, Building & Infrastructure

Ultracrete FTC Data Sheet

Specification notes

Product: **Ultracrete FTC**

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FTC

Fast Track Concrete

ULTRA
CRETE

High Specification Concretes



Fibre modified concrete, suitable for small and large reinstatements to car parks, warehouses and bridge decks.

- Shrinkage compensated
- Foot traffic: 2 hours
- Pre-blended, just add water
- High compressive strength 66N/mm²

Applications

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

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 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 Ultrascape Pro-Prime 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

FTC should be cured using Ultra Floor Prime IT Multi-surface Primer sprayed liberally over the surface, immediately after use. Visit ultra-floor.co.uk for further information.

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.

Health, Safety and Environmental

Please ensure that appropriate PPE is used when preparing, mixing and applying products. Always wash your hands before consuming food and make sure that materials are kept safely out of reach of children and animals. Please dispose of packaging and waste responsibly and in accordance with local authority requirements. A full material datasheet relating to this product is available from instarmac.co.uk.

Quality assurance

All products are manufactured in a plant whose quality management system is certified / registered as being in conformity with BS EN ISO 9001, 14001, and OHSAS 18001. Our products are guaranteed against defective materials and manufacture, and will be replaced or money refunded if the goods do not comply with our promotional literature. We cannot however accept any liability arising from the application or use of our products because we have no direct or continuous control over where and how our products are used. All products are sold subject to our conditions of sale, copies of which may be obtained on request.

Technical data

Compressive strength (N/mm ²)*	
4 hours	13.00
24 hours	17.00
7 days	50.00
28 days	64.00
Tensile Strength (N/mm ²)	
7 days	2.60
28 days	4.00
Flexural	
7 days	3.40
28 days	4.1
Workability*	20 minutes
Set time*	60 minutes
Yield	12.5 litres
Fresh wet density	2.200kg/m ³
Shrinkage expansion	negligible
Moisture content	< 4%
Unit/packaging	25kg paper bag (56 units per pallet)

*Depending on temperatures – tests carried out at 20°C. Cool temperatures retard, warm temperatures accelerate product performance.

Contact Us

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