

ULTRA CRETE

FP-1

Rapid Setting Patch and Kerb Repair

Applications

Ultracrete FP-1 is a two-component rapid repair mortar, ideal for the reinstatement of small areas such as trip hazards, kerbs and steps where prompt access is required.

Technical

Ultracrete FP-1, supplied in 10kg plastic containers, is a two-part system, comprising of a fully pre-blended mix of special cements and aggregates and a polymer modified liquid admixture. The product allows for depths of 10mm to 100mm to be achieved in one application. Ultracrete FP-1 should not be used at temperatures below 5°C during application or initial set.

Preparation

All surfaces should be free from oil, grease, dust or any other visible contaminants. Smooth substrates must be mechanically roughened, e.g. by scabbling or needle gun, followed by washing with clean water to remove all loose particles. Always work on a sound substrate. It is essential that repair edges are saw cut to a minimum depth of 10mm, feather edging is not recommended.

Priming

Use the supplied primer (white liquid included in the pack) to prime the surfaces prior to application, paying particular attention to the edges of the repair. Note: Do not allow the primer to dry.

Mixing

Mix the blended cements and aggregates vigorously with the remaining primer liquid. A little water may be added to produce a stiff slump-free homogeneous compound.

Placing

Ultracrete FP-1 should be applied firmly into position as soon as possible after mixing. Pay 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. Ultracrete FP-1 is ideal for small areas of repair. Larger patches may require an alternative product such as Ultracrete FTC. Consult the Instarmac Group Sales Department on +44 (0) 1827 871871 or visit our website www.instarmac.co.uk

Health & Safety

Operatives should wear protective clothing and work in well-ventilated conditions. This product contains Portland cement which, when mixed with liquid, is alkaline and may cause skin irritation. If the 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 a full updated Material Safety Data Sheet please visit www.instarmac.co.uk



Features & Benefits

- Can be trafficked within 2 hours, so minimising disruption
- Application depths from 10mm to 100mm
- High strength
- Two-part system, comprising of a fully pre-blended cement/aggregate and a polymer modified liquid admixture
- Easy to mix on site



Related Products

Ultracrete FTC Fast Set High Strength Repair Concrete



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Rapid Setting Patch and Kerb Repair

Physical Properties

Test Age	Compressive Strength* (N/mm ²)	Tensile Strength* (N/mm ²)	Flexural Strength* (N/mm ²)	Bond Strength* (N/mm ²)
1 hour	8.0	–	–	–
2 hours	15.0	–	–	–
4 hours	20.0	–	–	–
1 day	28.0	4.19	2.15	6.33
7 days	45.0	6.20	2.30	11.12
28 days	50.0	8.08	2.34	11.16
Workability	7 minutes *			
Setting time	25 minutes *			

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

Product Details

Unit/Packaging	10 kg plastic container (1 litre polymer additive and 9kg powder)
Storage	<p>Powder: Store in closed original container at temperatures between 5°C and 30°C. Avoid frost. This product must be stored in unopened tubs, clear of the ground in cool dry conditions and protected from excessive drafts. If stored correctly and used within 6 months of the date shown on the tub, 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.</p> <p>Liquid: Store in tightly closed original container in a dry, cool and well-ventilated place. Store at temperatures above freezing</p>
Shelf Life	Shelf life from date of manufacture in correct conditions for sealed packaging is 6 months. Note: The use of this product after the end of the declared storage period may increase the risk of an allergic reaction. High temperatures and high humidity will lead to a reduced shelf life
Density	2300kg/m ³
Coverage	Approximately, 0.5m ² @ 10mm
Yield	5 litres (approximately)
Colour	Grey

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