

Unicell Ultra Rapid

Prebagged high build, high early strength repair mortar



Description

Unicell Ultra Rapid is a pre-packed polymer modified mortar designed for concrete repair and rendering where high early strength gain is important. Layers of 50mm can be achieved depending upon substrate profile and technique. Greater thickness may be possible when applying material into pockets. Successive layers can be built up to achieve the required thickness once the previous layer has become firm.

Uses

- Thick section concrete repairs to vertical and overhead surfaces
- Can be used internally and externally
- Structural and cosmetic repairs to buildings and bridges
- Reinstatement of damaged concrete and protection of reinforcement
- Internal and external waterproof renders

Benefits

- High early strength
- Prebagged giving greater confidence
- Easy to apply on overhead surfaces
- Easy to achieve smooth surface finish
- Suitable for structural repairs
- Excellent waterproofing properties
- Application thickness up to 50mm per layer

Key Performance Indicators

- High early compressive strength; 6MPa at 1 hour and 30MPa at 24 hours
- Low density; 1550kg/m³

Project References Include

- Church Commission
- C.E.G.B.
- Housing Associations (UK)
- Local Councils and London Boroughs
- Architectural Services Department
- Highways Department



Specification Clause

The concrete repair mortar shall be Unicell Ultra Rapid by Ronacrete (Far East) Ltd, tel. (852) 2865 5872. The primer for steel and concrete shall be Unicell Primer. Apply in accordance with manufacturers instructions.

Technical Data (Unicell Ultra Rapid)

Compressive Strength (TM1)	6MPa	At 1 hour
	30MPa	At 24 hours
	37MPa	At 28 days
Flexural Strength	7.1MPa	At 28 days
Tensile Strength	2.7MPa	At 28 days
ISAT	0.0ml/m ² /sec	
Approximate Density	1 700kg/m ³	

Packaging

Unicell Ultra Rapid is supplied in 22kg pack consisting of powder and gauging liquid.

Application

Preparation

Prepare concrete to establish sound substrate and minimum repair depth. Expose reinforcing steel as necessary. Clean steel and concrete.

Priming

Double prime steel with Unicell Primer/cement mixture. Apply single coat to dampened concrete.

Mixing

Mix components using a mechanical mixer.

Installation

Apply mortar on to tacky primer. Build multiple layers as required. Scratch and prime between layers. Finish with float or trowel.

Curing

Cure with Monocure or tight fitting polythene.

Enhancement

Apply Ronabond Cover Plus 150, Ronabond Joltec or Ronabond Zolpacryl for improved protection against carbonation, water penetration, and decoration.

Shelf Life and Storage

Shelf life is 6 months. Store in a cool and dry conditions in the original and unopened packaging. Exposure to high humidity and high temperature may reduce the shelf life.

Health and Safety

Unicell Ultra Rapid contains cement. Protective clothing such as goggles, overalls and gloves is recommended to prevent any effect from prolonged skin contact, inhalation or ingestion. Refer to Health and Safety Data Sheet.

Technical Service and Support

Ronacrete provide free technical advice and support during design and installation of all systems for flooring, concrete repair, bonding, bedding and waterproofing. If you need any further information including method statement or additional technical data, contact the Ronacrete Technical Department on (852) 2866 4365 or visit our web site www.ronacrete.com.hk.

Guarantee

Ronacrete products are guaranteed fit for purpose and of merchantable quality.

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