



Unicell Primer

Priming, Bonding and Passivating Agent for Concrete and Steel Reinforcement

Description

Unicell Primer is a liquid bonding and priming aid which requires mixing with OPC to form a brushable slurry with exceptional performance characteristics.

Onto steel reinforcement, Unicell Primer forms a passivating layer, a tough flexible barrier against damaging ions and oxidation plus a strong bond to subsequent construction. Onto concrete substrates, Unicell Primer provides enhanced bonding and a barrier to water and ion ingress. Designed specifically for use with Ronacrete's Unicell range of mortars and renders, Unicell Primer is also compatible with most cementitious mortars, renders, concretes and screeds.



Benefits

- ✔ Water based
- ✔ Easy to use
- ✔ Excellent bond and waterproofing performance
- ✔ Low VOC
- ✔ Economic

Uses

- ✔ Steel protection in reinforced concrete
- ✔ Concrete repair
- ✔ Thin/Thick section bonding for mortars
- ✔ Screeds and renders

Key Performance

- ✔ Bond strength > 2.0 MPa

Specification Clause

The Primer for Steel and Concrete shall be Unicell Primer by Ronacrete (Far East) Limited, tel. (852) 2865 5872. All materials to be applied in accordance with manufacturer's instructions.

Test Details

Test Method	Result	HKHA Requirements
Bond Strength (TM5) For Unicell 25	1.8 MPa @ 7 days 2.2 MPa @ 28 days	Minimum 1.5 MPa @ 7 days (Class 25)
Bond Strength (TM5) For Unicell 40	2.2 MPa @ 7 days 2.4 MPa @ 28 days	Minimum 2.0 MPa @ 7 days (Class 40)
Bond Strength (TM5) For Unicell WF	2.5 MPa @ 7 days 3.0 MPa @ 28 days	N/A

Packaging and Yield

Unicell Primer is supplied in 30 litre drum and will cover approximately 4- 8 m²/litre.

Application (*Please Refer to the Method Statement and MSDS)

Surface Preparation

All defective concrete should be removed to leave a sound stable substrate for the repair material. Loose rust and scale should be removed from exposed reinforcement. Cut around the perimeter of the repair areas to a minimum depth of 6 mm to avoid feather edges.

Priming with Unicell Primer

Concrete surfaces to be primed must first be wetted with clean water. Remove any excess water before priming. To mix pour the Unicell Primer liquid into a suitable mixing vessel and slowly add the cement mixing with a slow speed drill and paddle (typically 500 rpm). The addition of cement should be at the ratio of either 1 part Unicell Primer to 1.5 parts OPC by volume or 1 part Unicell Primer to 2 parts OPC by weight. Once mixed prime any steel reinforcement and allow the primer to become tacky. Then brush apply a second coat of primer to the reinforcement and a first of the concrete. Whilst the primer is wet/tacky it should be over coated with the Unicell 25, Unicell 40 or Unicell WF. If the primer should dry it must be cross hatch scratched and reapplied.

Shelf Life and Storage

Unicell Primer must be stored in the original and unopened container in dry conditions. The shelf life of 9 months will be reduced if stored in conditions of high humidity and temperature.

Health and Safety

Unicell is non-hazardous although protective clothing such as goggles, overalls and gloves is recommended to prevent any effect from prolonged skin contact, inhalation or ingestion.

In the event of skin contact, wash with soap and water. Seek medical advice if irritation or pain occurs. In the event of eye contact, irrigate with plenty of clean water and seek immediate medical advice. In the event of ingestion, do not induce vomiting. Seek immediate medical advice.

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 or a full technical data sheet 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. Materials are supplied subject to our standard Terms and Conditions of Sale, available on request.

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