

PRODUCT DATA SHEET

Unicell® Primer

PRIMING, BONDING AND PASSIFYING 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 Sika's Unicell® range of mortars and renders, Unicell® Primer is also compatible with most cementitious mortars, renders, concretes and screeds.

USES

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

CHARACTERISTICS / ADVANTAGES

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

PRODUCT INFORMATION

Packaging	5 litres drum 30 litres drum
Appearance / Colour	Milky white Blue after mix with OPC
Shelf life	9 months from the date of production
Storage conditions	Stored properly in undamaged and unopened original sealed packaging in the dry conditions at temperature range from +5 °C to +35 °C. Protect from direct sunlight and frost.

TECHNICAL INFORMATION

Tensile Adhesion Strength	Test Method	Result	HKHA Requirements
	TM4 For Unicell® 25	2.2 MPa at 7 days 3.0 MPa at 28 days	Minimum 1.5 MPa at 7 days (Class 25)
	TM4 For Unicell® 40	2.7 MPa at 7 days 3.5 MPa at 28 days	Minimum 2.0 MPa at 7 days (Class 40)
	TM4 For Unicell® WF	2.5 MPa at 7 days 3.0 MPa at 28 days	N/A

APPLICATION INFORMATION

Ambient Air Temperature

> 5 °C

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

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.

APPLICATION

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.

Coverage

4–8 m²/litre

CLEANING OF EQUIPMENT

Clean all tools and application equipment with clean water immediately after use.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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May 2020, Version 01.03
020302020040000002

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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