

PRODUCT DATA SHEET

Unicell® 60

Prebagged High Build, High Strength, Waterproof Class 60 Repair Mortar

DESCRIPTION

Unicell® 60 is a prepacked vinyl acetate copolymer modified mortar requiring only the addition of clean water to produce a mortar suitable for structural concrete repair. It can be applied in thick section and is suitable for structural application. Layers 20–30 mm 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

CHARACTERISTICS / ADVANTAGES

- Prebagged giving greater confidence
- Single pack requiring only the addition of water
- Easy to apply on overhead surfaces
- Easy to achieve smooth surface finish
- Suitable for structural repairs

PRODUCT INFORMATION

Packaging	25 kg bag
Shelf Life	6 months
Storage Conditions	Stored properly in undamaged and unopened original sealed packaging in dry conditions. Protect from direct sunlight and frost.
Appearance / Colour	Concrete grey

TECHNICAL INFORMATION

Compressive Strength	> 60 MPa at 28 days		
Tensile Strength	> 2 MPa at 28 days		
Tensile Adhesion Strength	> 2 MPa at 28 days		
Shrinkage	Age at Test	Unicell® 60 Typical Performance	Test Method
	1–28 days	No cracking in 1–28 days	Coutinho ring

APPLICATION INFORMATION

Consumption

Approx. 58 bags/m³

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.

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.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Surface Preparation

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

Surface Priming

- Concrete surfaces to be primed must first be thoroughly wetted with clean water
- Mix the primer by the following ratio :
Unicell® Primer : Cement = 1:1.5 by volume OR 1:2.0 by weight
- Prime the steel reinforcement and allow to become tacky
- Prime the steel reinforcement again and the previously dampened concrete surfaces

MIXING

Mix the whole bag of Unicell® 60 with 4 – 4.5 litres clean water to even consistency with the aid of a mechanical mixer.

APPLICATION

- Apply the well mixed Unicell® 60 mortar to the prepared and primed substrate before the primer coat dries
- Maximum thickness is up to 30 mm per layer
- Intermediate layers should be scratched or keyed and primed before the next layer is applied
- Finished the repair to the desired profile using steel trowel or wood float
- Cure the finished surface with Monocure 50

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CLEANING OF TOOLS

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

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.

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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