

PRODUCT DATA SHEET

SikaRep® PK

Concrete Repair Mortar

DESCRIPTION

SikaRep® PK is a 1-component, fibre reinforced, low shrinkage concrete repair mortar

USES

- Repair of spalling and damaged concrete in buildings, bridges, infrastructure and super-structure works.
- Suitable for increasing the bearing capacity of the concrete structure by adding mortar.
- Increasing cover with additional mortar and replacing contaminated or carbonated concrete.
- Large volume of repairs, large thickness of mortar
- Suitable for application on overhead and vertical surfaces
- Fill pores, small damages of the concrete, corners, joint edges, shaping and covering joints

CHARACTERISTICS / ADVANTAGES

- Superior workability
- Good adhesion to common building materials (concrete, stone, brick, steel)
- Low shrinkage behaviour
- Excellent workability during overhead application
- Good compressive and flexural strengths
- Good finishing
- Suitable for hand and machine application

PRODUCT INFORMATION

Chemical Base	Cement, selected aggregates and additives
Packaging	25 kg Bag
Shelf Life	6 months minimum from the production date
Storage Conditions	Store properly in undamaged original sealed packaging, in dry cool conditions.
Appearance / Colour	Grey powder
Maximum Grain Size	2.5 mm
Total Chloride Ion Content	≤ 0.05 %

TECHNICAL INFORMATION

Compressive Strength	~40 MPa after 28 days
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APPLICATION INFORMATION

Mixing Ratio	3.75 - 4.25 L of water per 25 kg bag
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Fresh mortar density	~2.25 kg/l (25 °C)
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Yield	~12.8 L per 25 kg bag
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Layer Thickness	Min. 5 mm per layer Max. 30 mm per layer
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Ambient Air Temperature	+5 °C min / +35 °C max
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Substrate Temperature	+5 °C min / +35 °C max
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Pot Life	~45 min
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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 Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Concrete surfaces should be clean, rough, sound and free from oil, grease, cement laitance and all loosely adhering particles.

Absorbent surfaces should be saturated thoroughly with clean water

MIXING

Add water according to the desired consistency into a clean mixing vessel before slowly adding the SikaRep® PK powder. SikaRep® PK is best mixed in a forced action mixer, for 2 to 3 minutes or until the mix is free of lumps, not longer than 5 minutes. Slow speed drill (maximum 500 rpm) can be also used for mixing. Normal tumble type concrete mixers are not suitable. Do not mix more grout than can be placed within 15 to 20 minutes. Do not add extra water or other ingredients. Mix only full bags for the best result.

APPLICATION

Apply SikaRep® PK while the bonding agent is still wet.

The mortar can be applied by spatula or trowel. For any thickness greater than 30 mm, SikaRep® PK must be applied in several layers. As soon as the mortar has started to set it can be smoothed by wooden or synthetic float, styro-foam block or sponge. For fine surface finish SikaRep® Fine PK can be applied over the SikaRep® PK.

CURING TREATMENT

CLEANING OF TOOLS

Application and mixing tools should be cleaned with water while the material is still fresh. Hardened material can only be removed mechanically.

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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