

Product Data Sheet
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Sika® Rep

Sika® Rep

Multi-purpose patching and repair mortar

Construction

Product Description

A one component, cement based multi-purpose patching and repair mortar.

Uses

For the cosmetic or structural repair of deteriorated concrete and mortar. Sika® Rep

Provides a compatible surface for the application of Sika coatings and finishes.

Characteristics / Advantages

- One component: just add water
- Easy to mix, apply and finish
- Excellent adhesion
- Shrinkage compensated
- Compatible with the properties of typical concretes
- Vapour permeable
- High resistance to freeze/thaw cycling

Tests

Approval / Standards

Product Data

Form

Appearance / Color	Powder	Grey
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Packaging	25kg bag.
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Storage

Storage Conditions / Shelf-Life	Store in a dry area between +5°C and +30°C. Protect from direct sunlight. 6 Months in original, unopened packaging.
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Technical Data

Chemical Base	Cement and Crystalline free Silica
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Density	2,0 – 2,1 kg/liter
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Layer Thickness	5 – 30mm
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Mechanical Properties

Compressive Strength 10,0 N/mm² at 24 hours
30,0 N/mm² at 7 days
45,0 N/mm² at 28 days

Bond Strength Concrete substrate failure (Dyna Pull Off Adhesion Tester)

System Information

System Structure **Primer / Bonding Coat:** Sika MonoTop® 610 or SikaTop Armatec® 110 EpoCem®
Repair Mortar: (5 - 30mm layer thickness)

Application Details

Consumption / Yield Volume Yield: 12,0 liters per 25kg bag.

Substrate Quality The concrete substrate must be sound and of sufficient compressive strength (min. 20 N/mm² (MPa) with a minimum pull off strength of 1.5 N/mm² (MPa)).

The surface must be dry and free of all contaminants such as oils, grease, coatings and surface treatments etc.

The substrate must be prepared mechanically to remove cement laitance and achieve a profile open textured surface.

Weak concrete should be removed and surface defects such as honeycombed areas; blowholes and voids must be fully exposed.

Repairs to substrate, filling of blowholes/voids and surface levelling should be carried out using the appropriate product from the Sikafloor®, SikaDur® and SikaGard® range of materials.

Substrate Preparation All surfaces must be clean, sound and properly cured. Remove all loose materials mechanically, with a wire brush, or by water or sand blasting. Embedded reinforcing steel should be free from scale, rust, oil and grease and treated with a suitable protective coating such as SikaTop Armatec® 110 EpoCem®.

The extremities of all repairs should be recessed at least 5mm to avoid featheredges.

Application Conditions / Limitations

Substrate Temperature Min. 5°C – max. 30°C

Ambient Temperature Min. 5°C – max. 35°C.

Substrate Humidity > 80 %

Application Instructions

Mixing (Ratio/Dosage) For normal application add 4.0 – 4.5 litres of water per 25kg of Sika® Rep depending on the desired consistency. Mixing can be achieved either manually or mechanically. Mechanical mixing is preferred for quantities greater than 1 bag. Mixing should continue until a uniform, lump-free consistency is obtained.

Application Method / Tools Dampen the surface thoroughly with clean water and then prime it with Sika MonoTop® 610 or SikaTop Armatec® 110 EpoCem® depending on the applications. Apply Sika® Rep within open time of the primer to a maximum thickness of 30mm and compact thoroughly by trowel.

Protect from rain until initial set has been achieved.

Cleaning of Tools Remove uncured Sika® Rep from tools and equipment with water. Cured material can only be removed mechanically.

Pot Life (max. open time) 20 - 30 minutes after mixing depending on ambient and surface conditions.

Notes on Application / Limits Freshly applied Sika® Rep should be protected from damp, condensation and water for at least 12 hours.

Curing Details

Curing Treatment

Curing is important where ambient conditions may lead to rapid surface drying, the use of light water fogging for 48 hours or Sika® Antisol curing compounds are recommended. (Do not commence fogging until initial set has been reached; typically 1 - 2 hours depending upon ambient conditions.)

Local Restrictions

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

Health and Safety Information

Protective Measures

Cement containing material may cause skin irritation. Wear gloves and goggles or apply barrier cream to hands while working with the mortar.

Ecology

Transportation Class

Important Notes

Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.

Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the Material Safety Data Sheet.

Toxicity

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 or accessed on the Internet under www.sika.com

