

**Product Data Sheet**  
Edition 09/05/2016  
Identification no:  
010302020010000027  
Sika® Rep LW

# Sika® Rep LW

## Non-sag patching and repair mortar

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### Product Description

A one component, non-sag, cementitious, multi-purpose patching and repair mortar.

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### Uses

For the cosmetic or structural repair of deteriorated concrete and mortar. Sika® Rep LW can be used on, exterior or interior, vertical or overhead surfaces. Sika® Rep LW provides a compatible surface for the application of Sika's Coatings and Finishes.

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### Characteristics / Advantages

- One component: just add water
- Easy to mix, apply and finish
- Suitable for overhead applications
- Excellent adhesion
- Shrinkage compensated
- Compatible with the properties of typical concretes
- Permeable to water vapour
- High resistance to freeze/thaw cycling

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### Tests

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### Approval / Standards

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Construction



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## Product Data

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### Form

**Appearance / Colour** 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. 12 Months in original, unopened packaging.

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## Technical Data

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**Chemical Base** Cement and Crystalline free Silica aggregate.

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**Density** 1,6 – 1,7 kg/litre

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**Layer Thickness** Min. 10mm – max. 50mm

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## Mechanical Properties

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**Compressive Strength** 12,0 N/mm<sup>2</sup> @ 24 hours (at 23°C /50% rh)  
31,0 N/mm<sup>2</sup> @ 7 days  
43,0 N/mm<sup>2</sup> @ 28 days

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

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## System Information

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**System Structure** **Primer / Bonding Coat:** Sika MonoTop® 610 or SikaTop Armatec® -110 EpoCem®  
**Repair Mortar:** 10 – 50 mm layer thickness

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## Application Details

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**Consumption /Dosage** Volume Yield: 15,3 litres per 25kg bag.

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**Substrate Quality** The concrete substrate must be sound and of sufficient compressive strength (min. 20 N/mm<sup>2</sup> (Mpa) with a minimum pull off strength of 1.5 N/mm<sup>2</sup> (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.

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**Substrate Preparation / Priming** 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 10mm to avoid featheredges.

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## Application Conditions / Limitations

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

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

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## Application Instructions

**Mixing (Ratio/Dosage)** For normal applications add 3,8 - 4,0 litres of water per 25 kg bag of Sika Rep LW depending upon 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.

**Mixing Time** 3 minutes

**Mixing Tools** Mechanical slow speed drill

**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 LW within open time of primer to a maximum thickness of 50mm per layer and compact thoroughly by trowel.

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

**Pot Life (max. open time)** 50 - 60 minutes after mixing depending on ambient and surface conditions.

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

Avoid puddles on surface.

The normal precautions pertaining to dew point should be observed.

**Protect from rain until initial set has been achieved.**

Minimum thickness: 10mm

Maximum thickness: 50mm

## 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.)

**Value Base** 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.

## Health and Safety Information

### 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.



Sika South Africa (Pty) Ltd  
9 Hocking Place,  
Westmead, 3608  
South Africa

E-mail: [headoffice@za.sika.com](mailto:headoffice@za.sika.com)  
Phone +27 31 792 6500  
Telefax +27 31 700 1760  
[www.sika.co.za](http://www.sika.co.za)

