

SikaRep® LW

Light-Weight, Economical, Non-sag, Patching and Repair Mortar

Product Description	SikaRep® LW is a lightweight, cementitious, silica fume and polymer containing, one-component repair mortar. Suitable for use in tropical and hot climatic conditions.
Uses	For high-build cosmetic or structural repair of deteriorated concrete and mortar. SikaRep® LW can be used on exterior or interior, horizontal, vertical and also overhead applications.
Advantages	<ul style="list-style-type: none">■ One component, requires the addition of water only■ Easy to mix, apply and finish■ Excellent adhesion■ Shrinkage compensated■ Lightweight enables thicker application■ Compatible with the properties of typical concretes■ Vapour permeable■ Non corrosive, non toxic
Test Report	Al-Futtaim Tarmac Laboratories, United Arab Emirates

Product Data

Type	Cementitious, Silica fume, polymer composition
Form	Grey Powder
Packaging	25 kg bag
Storage Condition	Store in a dry area between 5°C and 35°C. Protect from direct sunlight
Shelf life	12 months minimum from production date if stored properly in original unopened packaging

Technical Data

Mixing ratio	Add 15 -17 % water to the dry powder (3.75 – 4.25 litres of water per 25 kg bag)	
Pot life (25°C)	30- 45 minutes	
Density	Fresh mortar approximately 1.8 – 1.9 kg/lt	
Mechanical Strengths (28 days) (ASTM C109)	Compressive strength (25°C)	35 N/mm ²
	Flexural strength	5 - 7 N/mm ²
	Adhesion (Pull off)	1.5 2.0 N/mm ² (concrete failure)
Yield	Approximately 14 litres per 25 kg bag	



Layer Thickness	Minimum 10 mm, Maximum 50 mm per application
Temperature	Minimum +5°C, Maximum +40°C (substrate)
Application Details	
Substrate preparation	Substrate must be sound, free from dust, loose particles, cement laitance, curing compounds, oil, grease or any other contamination. Metal surfaces (steel and iron) should be free from scale, rust, oil and grease. Pre-wet substrate to a saturated surface dry condition (SSD) prior to application. Avoid puddles and standing water.
Mixing	Pour 3.75 – 4.25 lt of clean, cold water into the mixing container. Add the SikaRep® LW powder slowly while mixing continuously for at least 3 minutes and until a homogeneous consistency is achieved. Use low speed electric mixers (max. 500 rpm). By adding the powder slowly and in portions, the desired application consistency can be obtained.
Application	A bonding agent, such as Sika MonoTop-610 or SikaTop Armatec 110 EpoCem is highly recommended. Apply SikaRep® LW while the bonding agent is still wet. The mortar can be applied by spatula or trowel. For any thickness greater than 50 mm, SikaRep® LW must be applied in several layers. As soon as the mortar has started to set it can be smoothed by wooden or synthetic float, styrofoam block or sponge. For a very fine surface finish, Sika MonoTop 620 / 625 can be applied over the SikaRep® LW .
Curing	Where ambient conditions may lead to rapid surface drying, the use of light water fogging for 48 hrs or application of a suitable water based curing compound (Sika Antisol E) is recommended. Do not commence fogging until final set has been reached.
Cleaning	Application and mixing tools should be cleaned with water while material is still fresh. Hardened material can only be removed mechanically.
Remarks	<ul style="list-style-type: none"> ■ SikaRep® LW should not be used at temperatures below 5°C. ■ At ambient temperatures above 35°C, the material should be stored in the shade and chilled water should be used for mixing. ■ SikaRep® LW may be over coated with Sikagard ElastoColor W, Sikagard-680 S, Sikagard-550 W Elastic and all SikaRep® and MonoTop products.
Notes	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.
Safety	For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet 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.



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