

SikaRep® -100

1-Component Polymer Modified Ultra-fine Fairing Coat

Product Description	SikaRep®-100 is a single component, cementitious, polymer modified repair mortar. It is suitable for use in tropical and hot climatic conditions.
Uses	SikaRep®-100 can be used as a: <ul style="list-style-type: none">■ Pore sealer / fairing coat on concrete and mortar substrates■ Repair mortar on pre-cast concrete panels■ Very thin layer render coat on horizontal and vertical areas in building and civil engineering construction for external and internal finishing etc.■ As a thin film weather protection layer.■ Fine repair mortar to fill honeycombs, pores etc. on any kind of concrete construction.
Advantages	SikaRep®-100 is one component, only the addition of water is required <ul style="list-style-type: none">■ Easy to mix, apply and finish■ Good protection against salts from sea water■ Protects against atmospheric effects like carbonation■ Excellent bond with cementitious substrates, e.g. concrete■ Overcoatable with most commercial paints■ Non-corrosive, non-toxic
Test Reports	Al-Futtaim Bodycote Laboratories, United Arab Emirates
Product Data	
Type	Cementitious, 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 25 -27 % water to the dry powder (6.25 – 6.75 litres of water per 25 kg bag)
Pot life (25°C)	Approximately 45 minutes
Density	Fresh mortar approximately 1.8 – 2.0 kg/lt
Adhesion (Pull off) (ASTM D 4541)	1.4 N/mm ²



Mechanical strengths (25°C) BS 6319 Part 7	Compressive: 14 - 20 N/mm ² (28 days) Tensile: 2.43 N/mm ²
Yield	Approximately 17.5 Litres per 25 kg bag
Layer Thickness	Minimum 0.5 mm, Maximum 4 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 6.25 – 6.75 lt of clean, cold water into the mixing container. Add the SikaRep®-100 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	SikaRep®-100 can be applied by trowel, spatula or the wet spray method. As soon as the mortar has started to set it can be smoothed by wooden or synthetic float, styrofoam block or sponge. No additional water must be used as it may lead to surface discoloration.
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	SikaRep®-100 should not be used at temperatures below 5°C. <ul style="list-style-type: none"> ■ At ambient temperatures above 35°C, the material should be stored in the shade. Use chilled water for mixing. ■ SikaRep®-100 may be over coated with Sika TopSeal 107, SikaSeal 105, Sikagard ElastoColor W, Sikagard-680 S, Sikagard-550 W Elastic and all other SikaTop 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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