

Sika Rep[®]

Multi-Purpose Patching and Repair Mortar

Product Description	A one component, cement based, multi-purpose patching and repair mortar, incorporating the use of micro-fibres.
Uses	Sika Rep [®] can be used for the cosmetic or structural repair of deteriorated concrete and mortar. Sika Rep [®] can be used on exterior or interior, horizontal or vertical surfaces. Sika Rep [®] provides a compatible surface for the application of Sika's Coatings and Finishes. Sika Rep [®] is especially suitable for the following applications: <ul style="list-style-type: none">■ Repair of concrete.■ Resurfacing defective or damaged areas.■ Concrete waterproofing and protection. NOTE: SR formulation available upon request.
Advantages	<ul style="list-style-type: none">■ One component: just add water.■ Easy to mix, apply and finish.■ Good adhesion to sound clean substrates (for enhanced adhesion properties use with Sika Latex).■ Shrinkage compensated.■ Compatible with the properties of typical concretes.■ Vapour permeable.■ Non-accelerated set to improve handling in hot temperatures.
Product Data	
Form	Powder
Colour of Mix	Grey
Packaging	25 kg bag. Volume Yields 12 Litre /25 Kg Unit.
Storage Conditions	Protect from direct sunlight. Protect from moisture
Shelf Life	12 months from data of production if stored properly in original unopened packing
Technical Data	
Density	2.0 - 2.1 (kg/l).
Compressive Strength	1 day - 18 N/mm ² . 3 day - 35 N/mm ² . 7 day - 40 N/mm ² . 28day - 45-55 N/mm ² . Results based on quality assurance laboratory: Ambient 20 - 23°C, Humidity 60 - 65 % - (4 cm x 4 cm x 16 cm Prisms).
Flexural Strength	9.0 N/mm ²
Bond Strength to Concrete	2.5 N/mm ²
Application	
Mixing Ratio	4.25 - 4.5 litres of water per 25 kg bag.
Surface preparations	Concrete or mortar surfaces must be clean, free from oil, grease and loosely adhering particles. Remove all loose materials mechanically, with a wire brush or sand blasting. Metal Surfaces (steel and iron) should be free from scale, rust, oil and grease. Exposed steel should be protected with Sika Top Armatec [®] -108 or -110. All repair area edges should be squared down a minimum 5mm. Pre-soak all repair areas with water. Allow surface to dry (S.S.D.) before applying Sika Rep [®] .



Mixing	For normal applications add 4.25 - 4.5 litres of water per 25 Kg bag of Sika Rep® depending on the desired consistency. Mixing can be achieved either manually or mechanically. Mechanical mixing is recommended by Sika for quantities greater than 1 bag. Mixing should continue for a max 5 minutes after all the contents of the bag are placed in the mix water.
Application	Pre-soak the repair surface with clean water and then allow surface to dry (Surface Saturated Dry-SSD). Prime Surface with a slurry of Sika Rep® using a stiff brush. The recommended slurry consists of 5.0 - 5.5 litres of water per 25 kgs of Sika Rep®. While the slurry coat is still damp, apply Sika Rep® to a maximum thickness of 30mm and compact thoroughly by trowel. For enhanced bonding characteristics use Sika Latex® in the slurry mix or use Sika Top Armatec® -110 as the bonding medium.
Cleaning	Clean all tools and equipment with clean water immediately after use. Hardened material can only be removed mechanically.
Pot Life	35 minutes at 20° C.
Important Recommendations	<ul style="list-style-type: none"> ■ Minimum working temperature is + 8° C. ■ Minimum layer thickness = 5mm. ■ Maximum layer thickness = 30mm. ■ For thickness less than 5mm, Sika Rep Fine® is available, where min thickness 0.5 mm and max thickness 5 mm per layer.
Curing	Use approved curing methods. For best results moist cure immediately after mortar reaches initial set (typically 1-2 hours depending on ambient temperatures), continue moist curing for minimum 48 hours. Use of a proprietary curing compound, like Antisol® -E, may be used.
Safety instructions	
Ecology	In liquid state product will contaminate water Don't dispose of into water or soil but according to local regulations.
Transport	Non-hazardous.
Toxicity	Non-Toxic under relevant health and safety codes.
Legal notes	<p>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 products when properly stored, handled and applied under normal conditions. 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the technical data sheet for the product concerned, copies of which will be supplied on request.</p> <p>For further technical information, please consult our technical service department.</p>



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