

SikaRep® Microcrete-1

A ready to use non shrink & cementitious micro concrete for repair of concrete structure

Product Description	SikaRep® Microcrete-1 is factory designed pourable, non shrink, repair concrete with selected cement, aggregate and other chemicals. Recommended water only to be added at site.
Uses	SikaRep® Microcrete-1 is mainly recommended for the repair of damaged concrete structures e.g. <ul style="list-style-type: none">■ Columns■ Beams■ Slabs, etc. It is also recommended for grouting of large gaps.
Characteristics / Advantages	SikaRep® Microcrete-1 has the following advantages : <ul style="list-style-type: none">■ A properly designed concrete■ It can be pumped or poured into restricted locations■ It allows for placement without vibration■ Adjustable consistency by controlling the water within the recommended limit■ Rapid strength development■ Good bond with the old concrete■ Pre packed for better result on site

Product Data

Form

Appearance / Colour Grey powder

Packaging 25 kg bags.

Storage

Storage Conditions / Shelf-Life 6 months from date of production if stored properly in undamaged and unopened, original sealed packaging, in dry conditions at temperatures between +5°C and +40°C. Protect from moisture, direct sunlight and frost.

Technical Data

Bulk Density 1.30 kg/l at 27 °C

pH Value 11 - 13.5 when mixed with water (ready to pour).

Mechanical / Physical Properties



Compressive Strength

(According to ASTM C-1107-99)

Curing Time	Curing Temperature (30°C)
1 day	≥ 20
3 days	≥ 40
28 days	≥ 60

System Information**Application Details**

Consumption	1760 kg of powder/ cubic metre of concrete
Productiveness	1 bag yields ~13.5 litres of mortar.
Substrate Preparation	Concrete surface should be clean, sound and free from oil, grease, cement laitance and all loosely adhering particles. Metal surfaces should be free from scale, rust, oil and grease.

Application Instructions

Mixing	2.5 to 3.0 l of water per 25 kg bag dependent on the desired flow.
Mixing Time	SikaRep® Microcrete-1 can be mixed both in paddle type slow speed grout mixer or drum type concrete mixer. In both the cases the powder SikaRep® Microcrete-1 is to be added to water and mix till a pourable consistent is obtained with recommended water/powder ratio. NEVER USE PART BAG
Cleaning of Tools	Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.
Notes on Application / Limitations	When ready to pour SikaRep® Microcrete-1 is workable for 20 minutes after mixing at +30°C).

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.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall 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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