Product Data Sheet Edition 13/07/2007 Identification no: 02 01 04 01 000 0 000000 SikaRep® Microcrete-4

SikaRep® Microcrete-4

Ready to use non-shrink, cementitious micro concrete

Product Description	SikaRep® Microcrete-4 is factory designed pourable, non shrink, repair concrete with selected cement, aggregate and other chemicals. Recommended water and coarse aggregate to be added at site as per requirement.	
Uses	SikaRep® Microcrete-4 is mainly recommended for the repair of damaged concrete structures e.g.	
	Columns	
	Beams	
	Slabs, etc.	
	It is also recommended for grouting of large gaps.	
Characteristics / Advantages	A properly designed concrete which can be pumped of poured into restricted	
	Placement without any vibration.	
	Expansion system compensates for shrinkage settlement in plastic stage.	
	Easy to mix and apply, high flow characteristic, rapid strength development,	
	good bond with old concrete	
-	Contains no added chloride	
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	1.2 kg/l (of fresh mortar) at 27 °C	
pH Value	11 - 13.5 when mixed with water (ready to pour).	
Mechanical / Physical		



Properties

Communicacións Cércamenth		(According to ASTM C 1107 – 99)	
Compressive Strength	Curing Time	Curing Temperature (30°C)	
	1day	≥ 25	
	3 days	≥35	
	7 days		
	28 days	 ≥65	
Flexural Strength	(According to ACTALO 000		
rickurar outengur	Curing Time	Curing Temperature (30°C)	
	7 days	≥4.0	
	28 days	<u>></u> 5.0	
Tensile Strength		(According to ASTM D 412 – 87)	
-	Curing Time	Curing Temperature (30°C)	
	7 days	≥2.0	
	28 days	≥3.0	
Note	The above mentioned values are based on concrete produced by mixing SikaRep® Microcrete-4 and 10mm down aggregate in proportion of 2:1 (by weight).		
System Information			
Application Details			
Comsumption	1760 kg of powder/ cubic metre of concrete		
Productiveness	1 bag yields approximately 13.5 litres of mortar.		
Substrate Preparation	All concrete surfaces should be clean, sound and free from loose particles, oil,		
	grease, etc. Metal surfaces should be scale, rust, oil and grease.		
Application Instructions			
Mixing Time	SikaRep® Microcrete-4 can be mixed both in paddle type and slow speed grouting mixture or drum type concrete mixer. In both the cases the powder SikaRep® Microcrete-4 is to be added to water and mix till a pourable consistency is obtained with recommended water –powder ratio as per technical data. Do not mix more Microcrete that can be used within 15 minutes. DO NOT ADD ANY EXTRA WATER. For field mixing Sika technical department may be consulted.		
Application Method/ Tools	Pour the SikaRep [®] Microcrete-4 after mixing into the area to be covered /filled. During filling if required, ensure proper air displacement.		
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 $^{\tiny @}$ Microcrete-4 is workable for 20 minutes after mixing at +30 $^{\circ}$ 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.		

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Construction

Legal Notes

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Sika India Pvt. Ltd. Commercial Complex II 620, Diamond Harbour Road Kolkata, 700 034, India Phone +91 33 2447 2448/2449 Telefax +91 33 2468 8688/2665 www.sika.in info@in.sika.com