Product Data Sheet Edition 17/08/2007 Identification no:

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Sikadur®-43

Epoxy resin mortar

Product Description	A solvent free repair and filling mortar, based on a combination of epoxy resins and selected high strength aggregates. After mixing, it forms a trowellable mortar with good adhesion to cement bound surfaces.		
Uses	Sikadur [®] -43 is a high strength material that is used as bedding or underfilling mortar or to repair horizontal concrete surfaces such as: Industrial Floors		
	■ Kerbstones		
	Joint arises in the Highways		
	■ Bridge Decks		
	Concrete Runways		
Characteristics /	Sikadur [®] -43 is an economical material with following advantages :		
Advantages	Solvent free		
	Shrinkage free hardening		
	High mechanical strength		
	Curing is not affected by high humidity		
	Suitable for both dry and damp surfaces		
	Rapid hardening		
	Abrasion and impact resistant		

Product Data

Form		
Appearance /Colours	Part A: light yellow, liquid Part B: light yellow, liquid Part C: sand colour, powder Parts A+B+C mixed: sandy grey	
Packaging	13.2 kg (A+B+C) Pre-batched unit. Part A: 0.80 kg plastic container Part B: 0.40 kg plastic container Part C:12.00 kg bag	
Storage		
Storage Conditions/ Shelf-Life	12 months from date of production if stored properly in original unopened, sealed and undamaged packaging, in dry conditions at temperatures between +5°C and +40°C. Protect from direct sunshine.	

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Technical Data				
Chemical Base	Epoxy resin.			
Density	~2 kg/l (Part A+B+C mixed) (at +27°C) (evacuated)			
Layer Thickness	40 mm max.			
	When using multiple units, one after the oprevious one has been used in order to a	other. Do not mix the following unit until the woold a reduction in handling time.		
Change of Volume	Shrinkage: (According to ASTI Hardens without shrinkage.			
Thermal Stability	Heat Deflection Temperature (HDT): (According to ASTM-D 648 HDT = +49°C (7 days / +30°C)			
Mechanical / Physical Properties				
Compressive Strength	(According to ASTM C 881)			
	Curing Time	Curing Temperature (+30°C)		
	1 day	> 30 N/mm²		
	14 days	> 60 N/mm ²		
Flexural Strength	(According to IS 9162)			
	Curing Time	Curing Temperature (+30°C)		
	7 days	20 N/mm ²		
Bond Strength	3.5 N/mm² (Concrete failure)	(According to ASTM C 882)		
Tensile Strength	(According to ISO 527)			
	Curing Time	Curing Temperature (+30°C)		
	14 days	<10 N/mm²		
System Information				
Application Details	4 m ² /4 mays this language. 2.0 km			
Consumption / Dosage	1 m² (1 mm thickness) ~2.0 kg.			
Substrate Quality	Concrete, mortar, rendering stone surfaces must be clean, sound and free from oil, grease, cement laitance, dust and other surface contaminants.			
Substrate Preparation	Preparation work may be done by sand-blasting or any other mechanical means.			
Priming	Priming the substrate with Sikadur [®] -31 or Sikadur [®] -53 FLV is a must prior to application of Sikadur [®] -43.			
	Sikadur [®] -31 is recommended for vertical/ overhead application and Sikadur [®] -5. FLV is suitable for horizontal application.			
	Coat the surface completely with the primer using a stiff brush. Work the primer winto the surfaces. Apply Sikadur [®] -43 while the primer is still tacky.			
Application Conditions /	Coat the surface completely with the priminto the surfaces. Apply Sikadur®-43 while	ner using a stiff brush. Work the primer we the primer is still tacky.		

Limitations

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Substrate Temperature	+10°C min. / +40°C	max.		
Ambient Temperature	+10°C min. / +40°C max.			
Material Temperature	Sikadur [®] -43 must be applied at a temperature between +10°C and +40°C.			
Application Instructions				
Mixing	Part A : Part B : Part C = 2 : 1 : 30 (by weight)			
Mixing Time		Pre-batched units:		
	The same	speed electric drill (National free colour is achieved)	B together for at least 2 minutes with slow Max. 600 rpm) until a smooth and streaked. Then add Component "C" & continue neous mortar is achieved. Use	
Application Method / Tools	Apply with a float, trowel or glove-protected hand depending on application. Compact well and finally smooth-off well with a clean steel trowel. When			
	Sikadur [®] -43 is requ layers.	Sikadur [®] -43 is required to be applied to a thickness of more than 40 mm, apply in layers.		
Cleaning of Tools	Clean all tools and application equipment with Sika® Colma Cleaner immediately after use. Hardened / cured material can only be mechanically removed.			
Potlife	100 gm mass		(According to FIP 5.1)	
	Temp	perature	Time	
	+3	30°C	~ 25 minutes	
	The potlife begins when the resin and hardener are mixed. It is shorter at high temperatures and longer at low temperatures. The greater the quantity mixed shorter the potlife. To obtain longer workability at high temperatures, the mixe adhesive may be divided into portions. Another method is to chill parts A+B at before mixing them (not below +5°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	and end-use of Sika knowledge and experience applied under normal practice, the different that no warranty in ror any liability arisine ither from this infor advice offered. The intended application	products, are given in erience of the products al conditions in accordances in materials, subsespect of merchantabing out of any legal relamation, or from any wuser of the product muand purpose. Sika reservience of the product muand purpose.	ommendations relating to the application a good faith based on Sika's current is when properly stored, handled and ance with Sika's recommendations. In strates and actual site conditions are such ality or of fitness for a particular purpose, ationship whatsoever, can be inferred ritten recommendations, or from any other just test the product's suitability for the serves the right to change the properties and product is must be observed.	



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concerned, copies of which will be supplied on request.