Product Data Sheet Edition 17/08/2007 Identification no: 02 04 02 03 001 0 000000 Sikadur®-41

Sikadur[®]-41

3-part thixotropic epoxy patching mortar

Product Description	A solvent-free, 3 component thixotropic mortar based on a combination of epoxy resins and selected quartz aggregates. After mixing it becomes an easy to use multipurpose repair and adhesive mortar.		
Uses	 Sikadur[®]-41 can be used in a number of varying applications : As bonding mortar on stone, concrete, mortar, plaster work, etc. For vertical and overhead filling of cavities For damaged stair-nosings and spalled concrete As abrasion resistant protective layer Suitable for bearing pad for bridges and heavy machinery 		

Product Data

Form			
Appearance /Colours	Part A: Part B: Part C: Parts A+B+C mixed:	white, paste black, paste sand colour, powder concrete grey	
Packaging	6 kg (A+B+C) Pre-batched unit.		
	Part A: 2.00 kg plastic container Part B: 1.00 kg plastic container Part C: 3.00 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.		
Technical Data			
Chemical Base	Epoxy resin.		
Density	~2 kg/l (Part A+B+C mixed) (at +27°C) (evacuated)		
Sag Flow	(According to FIP 5.3 with measurement according to ASTM D2730) On vertical surfaces it is non-sag up to 20 mm thickness.		
Layer Thickness	30 mm max.		
	When using multiple units, one after the other. Do not mix the following unit until the previous one has been used in order to avoid a reduction in handling time.		
Change of Volume	Shrinkage: Hardens without shrir	(According to ASTM C 883) nkage.	



Thermal Stability	Heat Deflection Temperature (HDT): HDT = +46°C (7 days / +30°C)		
	HDT = 140 0 (7 ddy37 100 0)		
Mechanical / Physical Properties			
Compressive Strength		(According to FIP 5.12 and IS 9162-1979)	
	Curing Time	Curing Temperature (+30°C)	
	1 day	>30 N/mm ²	
	7 days	~ 65 N/mm ²	
	14 days	~ 75 N/mm ²	
Flexural Strength		(According to IS 9162 1979)	
	Curing Time	Curing Temperature (+30°C)	
	14 days	~ 25 N/mm ²	
Bond Strength	3.5 N/mm ² (Concrete failure)	(According to ASTM C 882)	
Tensile Strength		(According to ISO 527)	

Curing Time

14 days

System Information

Application Details		
Consumption / Dosage	1 m ² (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	On sound non-absorbent surfaces, Sikadur [®] -41, does not generally require a primer. However, on damp or wet surfaces (no standing water), the following is recommended for priming :	
	Sikadur [®] -31 - for vertical and overhead application. Sikadur [®] -53 - for horizontal application.	
	Coat the surface completely with the primer using a stiff brush. Work the primer well into the surfaces. Apply Sikadur [®] -41 while the primer is still tacky.	
Application Conditions / Limitations		
Substrate Temperature	+10°C min. / +40°C max.	
Ambient Temperature	+10°C min. / +40°C max.	
Material Temperature	Sikadur [®] -41 must be applied at a temperature between +10°C and +40°C.	
Substrate Moisture Content	When applied to mat moisture concrete, brush the adhesive well into substrate.	
Application Instructions		
Mixing	Part A : Part B : Part C = 2 : 1 : 3 (by weight)	

Curing Temperature (+30°C)

<12 N/mm²

Mixing Time	Pre-batched units: Mix component A &			
	speed electric drill (N free colour is achiev	speed electric drill (Max. 900 rpm) until a smooth and streak- free colour is achieved. Then add Component "C" & continue mixing until homogeneous 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 [®] -41 is required to be applied to a thickness of more than 30 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 g mass)	(According to FIP 5.1)		
	Temperature	Time		
	+30°C	~ 60 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, the shorter the potlife. To obtain longer workability at high temperatures, the mixed adhesive may be divided into portions. Another method is to chill parts A+B and C before mixing them (not below $+5^{\circ}$ 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.			
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.			



5

S

> 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