Product Data Sheet Edition 01/01/2015 Identification no: 02 04 02 03 001 0 000007 Sikadur®-41

## Sikadur®-41

## 3-part thixotropic epoxy patching mortar

Shrinkage:

Hardens without shrinkage.

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 <sup>®</sup> -41 can be used in a number of varying applications :		
	As bonding mortar on stone, concrete, mortar, plaster work, etc.		
	<ul> <li>For vertical and overhead filling of cavities</li> </ul>		
	<ul> <li>For damaged stair-nosings and spalled concrete</li> </ul>		
	As abrasion resistant protective layer		
	Suitable for bearing pad for bridges and heavy machinery		
Product Data			
Form			
Appearance /Colours	Part A: white, paste		
	Part B: black, paste Part C: sand colour, powder		
	Parts A+B+C mixed: concrete grey		
Packaging	6 kg (A+B+C) Pre-batched unit.		
	Part A: 2.00 kg plastic container Part B: 1.00 kg metal 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** 

(According to ASTM C 883)

Thermal Stability	Heat Deflection Temperature (HDT): HDT = +46°C (7 days / +30°C)	(According ASTM D-648)	
Mechanical / Physical Properties			
Compressive Strength		(According to FIP 5.12 and IS 9162-1979)	
	Curing Time	Curing Temperature (+30°C)	
	1 day	≥ 65 N/mm²	
	7 days	≥ 70 N/mm²	
	14 days	≥ 80 N/mm²	
Flexural Strength		(According to IS 9162 1979)	
	Curing Time	Curing Temperature (+30°C)	
	14 days	~ 25 N/mm²	
Bond Strength	3.5 N/mm <sup>2</sup> (Concrete failure)	(According to ASTM C 882)	
Tensile Strength		(According to ISO 527)	
	Curing Time	Curing Temperature (+30°C)	
	14 days	<12 N/mm²	
System Information Application Details			
Consumption / Dosage	1 m <sup>2</sup> (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 <sup>®</sup> -31 - for vertical and overhead application. Sikadur <sup>®</sup> -53 - for horizontal application.		
	Coat the surface completely with the prin into the surfaces. Apply Sikadur®-41 whi	mer using a stiff brush. Work the primer well le 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 <sup>®</sup> -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 we	ight)	

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Mixing Time	Pre-batched units:		
	speed electric drill ( free colour is achiev	B together for at least 2 minutes with slow Max. 900 rpm) until a smooth and streak-red. Then add Component "C" & continue eneous 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 <sup>®</sup> -41 is required to be applied to a thickness of more than 30 mm, apply ir 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	~ 30 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°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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