Product Data Sheet

Edition 01/01/2014 Identification no: 02 03 02 06 002 0 000001 Sikadur®-52

Sikadur®-52

Low viscosity injection resin

Product Description	Sikadur $^{\$}$ -52 is two part, solvent-free, low viscosity injection-liquid, based on high strength epoxy resin.			
Uses	As an injection resin with good adhesion to dry concrete, mortar, stone, steel and wood. Sikadur®-52 is used to fill and seal voids and cracks in structures such as bridges and other civil engineering buildings, industrial and residential buildings, e.g. columns, beams, foundations, walls, floors and water retaining structures.			
Characteristics /	Solvent-free			
Advantages	Suitable for dry conditions			
	Usable at low temperatures			
	Shrinkage free hardening			
	 High mechanical and adhesive strengths 			
	Hard but not brittle			
	Low viscosity			
	 Injectable with single component pumps 			
Product Data Form				
Colours	Part A: colourless			
	Part B: brownish yellow			
	Part A+B mixed: yellowish-brownish			
Packaging	0.9 kg (A+B) Pre-batched unit.			
	Part A: 0.8 kg plastic container Part B: 0.1 kg plastic container			
Storage				
Storage Conditions/ Shelf-Life	12 months from date of production if stored properly in unopened, undamaged and sealed original packaging, in dry conditions at temperatures between +5°C and +40°C.			
Technical Data				
Chemical Base	Epoxy resin.			
Mixed Density	1.14 kg/l (at +27°C)			
70				



Viscosity

~ 250 mPa s at +30°C

Mechanical / Physical Properties					
Compressive Strength		(According to ASTM C-579)			
	Curing time	+30°C			
	1 day	≥40 N/mm²			
	7 days	≥55 N/mm²			
	14 days	≥55 N/mm²			
Tensile Strength	≥35 N/mm² (after 7 days at +30°C)	(According to ISO 527)			
Bond Strength	To concrete: (According to ASTM				
	> 10 N/mm² (failure in concrete) (after14 days at +30°C)				
System Information					
Application Details					
Consumption / Yield	1.14 kg of Sikadur [®] -52 is ~ equal to 1 l injection resin.				
Substrate Preparation	d surface treatments etc.				
	Pre-treatment for good bond: Concrete, mortar, stone should be thoroughly prepared by high pressure water jetting or mechanical means such as grinding, chiselling etc. Cracks must be cleaned to remove dust with compressed air.				
Application Conditions / Limitations					
Substrate Temperature	+10°C min. / +40°C max.				
Substrate Moisture Content	Dry condition				
Application Instructions					
Mixing	Part A : Part B = 8 : 1 (by weight)				
Mixing Time	Pre batched packaging: Add all of part B to part A. Mix with an electric mixer at slow speed (max. 250 rpr for at least 3 minutes. Avoid entraining air. Bulk packaging:				
	Add both parts in the correct proportion ir in the same way as for the pre batched up	nto a suitable clean, dry container and mix			
Application Method / Tools	Output for the state of the sta				
	s: n or roller until complete saturation of the by pouring mixed Sikadur® 52 directly s" made from Sikaflex® sealant. Crack t be sealed on the underside with cementitious Sika mortar.				
	Injection of cracks on horizontal / vertical Injection flange / nipples are fixed along t centre-to-centre distance with Sikadur®-3 sealed with Sikadur®-31. Crack penetrain sealed on the underside with Sikadur®-31 Sika mortar. Mixed Sikadur®-52 can be in	he crack line at an approximately 25 cm 1. Crack mouth should be opened and ng slabs to their soffit should also be epoxy mortars or a suitable cementitious			

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Sikadur®-52

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ports using injection pump, such as Aliva AL-1200, AL-1250 or the Sika® Hand Pump. As soon as injection resin oozes out of the next injection port, the first one is sealed and injection process is continued from next port.				
For horizontal crack, injection should start from any of the ends and to be continued and completed till the last port is used. For vertical crack, injection should start from the lowest port and continued upwards. After completion of the injection process, the injection ports as well as the sealing				
materials between the ports are removed.				
Clean all tools and application equipment with Sika® Colma-Cleaner immediately after use. Hardened / cured material can only be mechanically removed.				
100 g mass	(According to FIP 5.1)			
Temperature	Time			

Notes on Application / Limitations

Maximum width of cracks to be injected: 5 mm.

+30°C

Sikadur[®]-52 is suitable for dry condition.

Value Base

Cleaning of Tools

Potlife

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.

~30 min

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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