Product Data Sheet

Edition 01/01/2015 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. 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.	
Uses		
Characteristics / Advantages	 Solvent-free 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 	

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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 metal 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)			
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 C 882)	
	> 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 inje	ction resin.	
Substrate Preparation	Requirements: Sound, clean, free from oil and grease and 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 rpm) for at least 3 minutes. Avoid entraining air.		
	Bulk packaging: Add both parts in the correct proportion into in the same way as for the pre batched uni	ts.	
Application Method / Tools	Successful application depends on very ca treated must be structurally sound, free froi contaminants. Dirt, dust and other foreign r which is fully contaminated with oil / grease & uncontaminated concrete.	m standing water, oil, grease, surface materials must be removed. Concrete	
	Impregnation of cracks on horizontal slabs: Impregnation is applied with a paint brush or roller until complete saturation of the substrate is achieved. Cracks are sealed by pouring mixed Sikadur® 52 directly from the mixing vessel between two "dams" made from Sikaflex® sealant. Crack penetrating slabs to their soffit should first be sealed on the underside with Sikadur®-31 epoxy mortars or a suitable cementitious Sika mortar.		
	Injection of cracks on horizontal / vertical si Injection flange / nipples are fixed along the centre-to-centre distance with Sikadur [®] -31. sealed with Sikadur [®] -31. Crack penetrating sealed on the underside with Sikadur [®] -31 c Sika mortar. Mixed Sikadur [®] -52 can be injection	e crack line at an approximately 25 cm . Crack mouth should be opened and g slabs to their soffit should also be epoxy mortars or a suitable cementitious	

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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 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, to materials between the ports are removed.		
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 min	
Notes on Application / Limitations	Maximum width of cracks to be injected: 5 mm. Sikadur®-52 is suitable for dry condition.		
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 recand end-use of Sika products, are given in knowledge and experience of the products applied under normal conditions in accord practice, the differences in materials, substhat no warranty in respect of merchantab nor any liability arising out of any legal relieither from this information, or from any wadvice offered. The user of the product metals and end-user in the substantial of the product metals.	n 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 ility or of fitness for a particular purpose, ationship whatsoever, can be inferred ritten recommendations, or from any other	

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