Sikadur® -52

Low Viscosity Injection Resin

Product	Sikadur® -52 is a two component, so	olvent-free, low viscosity injection-liquid, based	
	on high strength epoxy resins.		
Description	Complies with ASTM C881-78 Type I, Grade 1 Class B+C.		
Uses	Sikadur® -52 is used to fill and seal cavities and cracks in structural components		
	such as bridges, industrial structures, columns, beams, foundations, walls, floors,		
	slabs and water-retaining structures. It not only forms an effective barrier against		
	water infiltration of corrosion promoting media, but also structurally bonds the		
	concrete sections together.		
Advantages	■ Solvent-free.		
_	Suitable in both, dry and damp conditions.		
	Useable at low temperatures.		
	Two grades for different climatic conditions (normal and long pot life).		
	■ Shrinkage-free hardening.		
	High mechanical and adhesive strengths.		
	■ Hard but not brittle.		
	Very low viscosity.		
Test Certificates	■ Bautechnisches Versuchs - und Forschungsanstalt Salzburg, Austria.		
	■ Laboratoire de Ponts et Chaussée C.F.T.E., Aix-en-Provence, France.		
	■ Ministerio de Industrie e do Comercio, Instituto Nacional de Technologia, Rio de		
	Janeiro.		
	■ Sikadur -52 has been tested as per SCAQMD Method 304-91.		
5 1 (5 (Result: VOC Content < 10 g/L		
Product Data	V II . I (0 (4) II . I 0	(5)	
Colour	Yellowish (Comp. (A): yellowish, Comp. (B): brownish).		
Packaging	3 kg units (A+B) pre measured.		
	lands a faired annual dense.		
	Industrial packing:		
	Comp. (A) = 20 kg pails and 180 kg drums. Comp. (B) = 10 kg pails, and 180 kg drums.		
Storage	Store in dry conditions at temperatures between + 5°C and 30°C.		
Shelf Life	12 months from date of production if stored properly in original unopened packing.		
Technical Data	12 months from date of production if	stored property in original unopened packing.	
Density (20°C)	Comp. (A): 1.1 kg/l		
Delisity (20 C)	Comp. (A): 1.1 kg/l		
	Comp. (A + B):1.1 kg/l (mixed)		
Viscosity	C° Normal T	Type L.P. Type	
(mpa.s)	10 ~ 1000	<u> </u>	
(20 ~ 500	~ 290	
	30 ~ 250	~ 130	
Coefficient of Thermal	89 x 10 ⁻⁶ per °C (from - 20°C to + 60°	°C).	
Expansion		,	
Mechanical Strengths		10 days	
(at 20°C and 65% r. h.)	Compressive strength	53 N/mm ²	
· ·	■ Flexural strength	50 N/mm ²	
	Tensile strength	25 N/mm ²	
	Bond strength to concrete	4 N/mm ² (concrete failure)	
	Bond strength to steel	10 N/mm ²	
Modulus of Elasticity	1'060 N/mm ² .		
(static)			



Application			
Mix Ratio	Normal Type / L. P. Type: Comp. (A): (B) = 2:1 parts by volume and weight.		
Application	There are various application methods requiring different equipment, depending on		
	the nature of the work to be carried out. It is therefore advisable to contact our		
	Technical Department for assistance.		
Pot Life (2 kg)		Normal Type	L .P. Type
` ""	<u>°C</u> 5	75 min.	
	10	55 min.	-
	20	20 min.	60 min.
	30	10 min.	30 min.
	40	-	15 min.
Important	■ Maximum width of cracks to be injected: 5 mm.		
	■ Minimum age of new concrete: 3- 6 weeks		
	■ Minimum temperature of concrete to be injected: +5°C - 10°C		
	(depending on width and depth of crack)		
	 Maximum permissible si 	ubstrate temperature:	+30°C.
Safety Instructions			_
Ecology	In a liquid state Comp. (A + B) contaminate water.		
	Do not dispose of into water or soil but according to local regulations.		
Transport	Comp. (A): Non-hazardous.		
-	Comp. (B): 8/66 c).		
Safety Precautions	Product may cause skin irritation. Wear gloves and goggles and apply barrier cream		
-	to hands. If the material is accidentally splashed into the eyes, flush immediately		
	with plenty of warm water and seek medical attention without delay.		
Toxicity	Comp. (A): Class 4, under the relevant Swiss health and safety codes.		
-	Comp. (B): Class 4, under the relevant Swiss health and safety codes.		
	Observe warning on packing.		
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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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