

Sikadur®-53

Fillerised Epoxy Injection Resin

Product Description **Sikadur®-53** is a solvent-free, two-component, moisture insensitive liquid based on epoxy resin and containing special fillers. Suitable for use in hot and tropical climates.

Uses **Sikadur®-53** is used as an injectable resin to seal damp and wet cracks by means of high pressure injection (width of the cracks > 0.5 mm) or as a grouting liquid for the adhesion of concrete and steel under water (by water displacement).

- Advantages**
- Cures without shrinkage
 - High resistance to a wide range of aggressive chemicals
 - Excellent adhesion to salt-water immersed, cementitious substrates
 - High density ensures complete water displacement
 - High mechanical strengths even after hardening under water

Product Data

Type	Epoxy resin
Form	Green (Component A: green, Component B: transparent)
Packaging	20 kg units (A+B) pre-measured
Storage Condition	Store in moisture tight, closed and undamaged original containers at temperatures between + 5°C and + 35°C away from direct sunlight.
Shelf life	12 months minimum from production date if stored properly in original unopened packaging.

Technical Data

Mixing ratio	Component A : B = 8.0 : 1 parts by weight Component A : B = 3.6 : 1 parts by volume			
Density of mix	Component A+B: 2.0 kg/lit (mixed)			
Potlife (2 kg)	20°C	Approximately 30 minutes		
	30°C	Approximately 15 minutes		
	40°C	Approximately 7.5 minutes		
Mechanical strengths (Grouted and cured under water at 20°C.)		1 day	2 days	14 days
	Compressive strength	~ 53 N/mm ²	~ 61 N/mm ²	~ 92 N/mm ²
	Flexural strength	~ 35 N/mm ²	~ 42 N/mm ²	~ 49 N/mm ²
	Tensile strength			~ 30 N/mm ²
	Adhesive Tensile strength			2.5-3.5 N/mm ² (concrete failure)
Viscosity (mPas)	Component A+B: Approximately 5 800 cps. at 20°C			



Application

Application: Add component B to component A and stir with a mixing paddle attached to an electric hand-drill (maximum 400 rpm to avoid entrapping air). Mix thoroughly for 2-3 minutes until an even green colour of the mixture is obtained. Clean all tools immediately after use with Colma Cleaner.

Remarks

- After having mixed component A with component B, observe a waiting time of 15 minutes (at 20°C) in order to allow the mixture to pre-react for optimal adhesion under water.
- Maximum crack width 20 mm.

Notes 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.

Safety For information and advice on the safe handling, storage and disposal of chemical products, users should 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 should 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



Sika Gulf B.S.C (c)
 Bldg. 925, Road 115, Sitra Area 601
 P.O. Box 15776
 Adliya, Kingdom of Bahrain
 TEL: +973 17738 188
 Fax: +973 17732 476
 E-mail: sika.gulf@bh.sika.com
 Web: <http://www.sika.com.bh>

