

Sikadur® 52

Super-Low Viscosity Injection Resin

Description Sikadur® 52 injection resin is a solvent-free, two-component, moisture-insensitive, epoxy resin system. It is a multipurpose, high-strength adhesive formulated specifically for grouting both dry and damp cracks either by gravity feed or pressure injection.

Where to Use

- To grout cracks.
- For pressure injection grouting.
- To seal slabs.

Advantages

- Convenient easy mix ratio A:B = 2:1 by volume.
- Super-low viscosity.
- Unique, high strength adhesive for “can’t dry” cracks.
- Meets ASTM C881, Type I, II, Grade 1, Class B and C.
- Ministry of Transport Québec acceptance.

Technical Data	
Packaging	9 L (2.38 US gal.) unit and 450 mL (15.2 fl. oz) Pre-Pack cartridge, 12/case
Colour	Clear, amber
Shelf Life	2 years in original, unopened packaging. Store dry between 5 and 32°C (41 and 89°F). Condition product at 18 and 29°C (65 and 84°F) before using.
Mix Ratio	A:B = 2:1 by volume
Properties at 23°C (73°F) and 50% R.H.	
Viscosity	200 - 350 cps
Pot Life (250 g)	20 - 25 min
Tack-Free Time	3 - 4 hrs
Final Cure ASTM D695 (75% ultimate strength)	2 days
Compressive Strength ASTM D695 28 days	61 MPa (8847 psi)
Modulus of Elasticity ASTM D695 28 days	1.8 GPa (2.6 x 10 ⁵ psi)
Tensile Strength ASTM D638 14 days	37 MPa (5366 psi)
Tensile Elongation ASTM D638 14 days	3.8%
Shear Strength ASTM D732 14 days	30 MPa (4351 psi)
<i>Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.</i>	

How to Use

Surface Preparation Concrete surface must be clean and sound. Cracks may be dry or damp, but free of standing water. Remove dust, laitance, grease, curing compounds, waxes, impregnations, foreign particles, and disintegrated materials.

Mixing Premix each component before proportioning. To mix, proportion 1 part B and 2 parts A by volume into a clean pail. Mix thoroughly for 3 minutes with paddle on low-speed drill (300 - 450 rpm). Mix only that quantity can be used within its pot life.

Application

To gravity feed cracks: Pour neat Sikadur® 52 into “V” notched crack. Continue placement until completely filled. Seal underside of slab prior to filling if cracks reflect.

For pressure injection cracks: Set appropriate injection ports based on system used. Seal entry port area with Sika® AnchorFix®-3^{CA}/4^{CA} or Sikadur® 31 Hi-Mod Gel^{CA}. When epoxy adhesive seal has cured, inject Sikadur® 52 using automated equipment or manual method. Maintain slow, steady pressure during injection.

To seal slabs: Spread neat Sikadur® 52 over slab with flat-rubber squeegee or roller. Allow time to penetrate. Squeegee off excess while still liquid. Seal interior slabs and above grade exterior slabs only.



Curing	Substrate temperature should not be below 4°C (39°F). Lower temperature will prolong cure time.
Clean Up	Collect with absorbent material. Dispose of in accordance with local disposal regulations. Uncured product can be removed with Sika® Equipment Cleaner. Cured product can only be removed mechanically.
Limitations	<ul style="list-style-type: none">■ Do not thin Sikadur® 52: Solvents may prevent proper cure.■ Product is a vapour barrier after cure.■ Do not inject cracks under hydrostatic pressure.■ Do not inject cracks greater than 6 mm (1/4 in) wide.
Health and Safety Information	<p>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.</p> <p>KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY</p>

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, within their shelf life. 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 recommendations, or from any other advice offered. 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 Product Data Sheet for the product concerned, copies of which will be supplied on request or can be accessed in the Internet under www.sika.ca.

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