

Sikadur® Injection Resin

Description	Low viscosity, 100% solids epoxy resin
Where to Use	Low pressure injection of cracks in structural concrete and masonry
Advantages	■ As strong as concrete ■ Convenient mix in the nozzle cartridge system ■ Cartridges fit standard caulking guns
Coverage	Approx. 8 linear ft.
Cure mechanism	Stoichiometric cure
Packaging	Cartridge Injection Resin (x2) 250 ml

Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.)

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf life 18 months in original, unopened containers
Storage Conditions Store dry at 40-75°F (5-24°C). Condition dry at 40-75°F (5-24°C.)

Compressive Strength (ASTM D-695), psi (N/mm ²)		
	40°F	68°F
4 hrs		580 (4)
8 hrs		2320 (16)
16 hrs		3625 (25)
1 day		5365 (37)
7 days	6670 (46)	9425 (65)
14 days	7975 (55)	9715 (67)
28 days	9425 (65)	10150 (70)

Compressive Modulus (ASTM D-695) 232000 psi
Viscosity Mixed (ASTM D-2393) 500 cps
Pot Life (ASTM C-881) 30 min.
Tensile Strength (ASTM D-638) 6235 psi
Elongation at Break (ASTM D-638) 25 %
Tensile Modulus (ASTM D-638) 261000 psi
Flexural Strength (ASTM D-732) 10150 psi
Bond Strength (ASTM D-897)

2 day 464 psi (concrete failure)
14 days 365 psi (concrete failure)
Water Absorption (ASTM D-570) 0.24%
Heat Deflection Temp. (ASTM D-648) 109.7 deg. F

How to Use

Surface Preparation	For a successful application, very thorough preparation is a must. The crack to be treated must be dry and free from oil, grease, dust and other contaminants. Any loose material must be blown or brushed clear.
Mixing	Remove screw cap, insert outlet plugs, attach mixer nozzle with extension tube*. Extrude waste to form a homogeneous mix (until a uniform color is achieved). Use the push fit connector to connect to injection port. *For horizontal cracks (floor, slab, etc.), remove the extension tube.
Application	For Vertical Cracks (walls, columns, beams) - The resin should be injected into the first (lower) port. When the resin begins to flow from the adjacent port, close off the first port and disconnect the hose. Reconnect to the second port and inject until resin starts to flow from the third; this process is repeated until the whole crack has been injected. After the resin has been allowed to cure, the injection ports and capseal should be removed and any holes or voids should be filled. For Horizontal cracks (floors, slabs, etc.) - To gravity feed cracks, seal the underside of the substrate prior to filling if the crack reflects through. Dispense the injection resin slowly into the vee-notched crack. Continue injecting until completely filled.
Limitations	■ Minimum substrate and ambient temperature 40F (5C). Maximum substrate temperature 95F (45C). ■ Minimum age of concrete must be 21-28 days, depending on curing conditions. ■ Do not apply over wet, glistening surfaces. ■ Not for injection of cracks subjected to osmotic or hydrostatic pressure during application. ■ Do not inject cracks greater than 1/4 in (6mm). Consult Sika Technical Services. ■ Not an aesthetic product. Colour may alter due to variations in lightning and/or UV exposure. ■ NOT FOR USE IN ANCHORING APPLICATIONS.

PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT [HTTP://USA.SIKA.COM/](http://usa.sika.com/) OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800-933-7452. NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY.

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

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