

PRODUCT DATA SHEET

Sikadur[®] Crack Fix

Low-viscosity, high-strength epoxy sealing system

PRODUCT DESCRIPTION

Sikadur[®] Crack Fix is a 2-component, 100 % solids, moisture-tolerant, low-viscosity, high-strength, multi-purpose, epoxy resin adhesive. It conforms to the current ASTM C-881 and AASHTO M-235 specifications.

USES

- Gravity-feed of cracks in horizontal concrete and masonry
- Low pressure injection of cracks in structural concrete, masonry, wood, etc.

CHARACTERISTICS / ADVANTAGES

- Formulation identical to popular, high strength adhesive Sikadur[®] 35, Hi-Mod LV
- Five times stronger than concrete
- Convenient easy to use, single tube cartridge - fits standard caulk guns
- Deep, penetrating and tenacious bonding of cracks in structural concrete
- No mess - self-mixing

PRODUCT INFORMATION

Packaging	Carton contains 12 single caulk tube-style cartridges Each cartridge packaged with 2 static mixers and 2 flow restrictors
Color	Clear, amber
Shelf Life	24 months in original, unopened containers
Storage Conditions	Store dry at 40 to 95 °F (4 to 35 °C). Condition material to 60 to 75°F (15 to 24 °C) before using.
Viscosity	Approximately 375 cps.

TECHNICAL INFORMATION

Compressive Strength	40 °F (4 °C)	73 °F (23 °C)	90 °F (32 °C)	(ASTM D-695) Tested at: 73 °F (23 °C) 50 % R.H.
	4 hour	-	-	
8 hour	-	180 psi (1.2 MPa)	3,200 psi (22.1 MPa)	
16 hour	-	4,500 psi (31.1 MPa)	6,300 psi (43.5 MPa)	
1 day	-	6,000 psi (41.4 MPa)	9,100 psi (62.8 MPa)	
3 day	4,000 psi (27.6 MPa)	9,000 psi (62.1 MPa)	10,500 psi (72.5 MPa)	
7 day	6,800 psi (46.9 MPa)	11,000 psi (75.9 MPa)	10,500 psi (72.5 MPa)	
14 day	10,300 psi (71.1 MPa)	12,000 psi (82.8 MPa)	10,500 psi (72.5 MPa)	
28 day	12,400 psi (85.6 MPa)	13,000 psi (89.7 MPa)	10,500 psi (72.5 MPa)	

Material cured and tested at the temperatures indicated and 50 % R.H.

Modulus of Elasticity in Compression	2.9 X 10 ⁵ psi (2,000 MPa) (7 days at 73 °F (23 °C) and 50 % R.H.)	(ASTM D-695) Tested at: 73 °F (23 °C) 50 % R.H.
Flexural Strength	11,000 psi (75.9 MPa) 7 days	(ASTM D-790) Tested at: 73 °F (23 °C) 50 % R.H.
Modulus of Elasticity in Flexure	3.1 x 10 ⁵ psi (2,139 MPa) 7 days	(ASTM D-790) Tested at: 73 °F (23 °C) 50 % R.H.
Tensile Strength	7,000 psi (48.3 MPa) 7 days	(ASTM D-638) Tested at: 73 °F (23 °C) 50 % R.H.
Hardened concrete to hardened concrete		
2 day (moist cure)	Bond Strength 1,300 psi (9.0 MPa)	(ASTM C-882) Tested at: 73 °F (23 °C) 50 % R.H.
14 day (moist cure)	Bond Strength 1,350 psi (9.3 MPa)	
Elongation at Break	6.9 % (7 days)	(ASTM D-638) Tested at: 73 °F (23 °C) 50 % R.H.
Shear Strength	4,800 psi (33.1 MPa) 14 days	(ASTM D-732) Tested at: 73 °F (23 °C) 50 % R.H.
Heat deflection temperature	121 °F (49 °C) (7 day [fiber stress loading = 264 psi (1.8 MPa)])	(ASTM D-648) Tested at: 73 °F (23 °C) 50 % R.H.

APPLICATION INFORMATION

Mixing Ratio	Component A : Component B = 2:1 by volume			
Coverage	1 cartridge yields approximately 10.7–11.0 cu. in. (175–180 ml) of usable epoxy resin.			
Pot Life	Approximately 25 minutes (60 gram mass)			
Cure Time	Tack Free Time	40 °F (4 °C)*	73 °F (23 °C)*	90 °F (32 °C)*
	(3–5 mils)	14–16 hours	3–3.5 hours	1.5–2 hours

* Material cured and tested at the temperatures indicated.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

LIMITATIONS

- Minimum substrate and ambient temperature 40 °F (4 °C). Maximum substrate temperature is 95 °F (35 °C).
- Minimum age of concrete must be 21–28 days, depending on curing and drying conditions.
- Do not apply over wet, glistening surface.
- Not for injection of cracks subjected to osmotic or hydrostatic pressure during application.
- Do not inject cracks greater than 1/4 in. (6.3 mm) Consult Technical Service at 1-800-933-SIKA.
- Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure.

ENVIRONMENTAL, HEALTH AND SAFETY

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

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Surface must be clean, dry and sound. Remove dust from crack by brushing or by blowing clean with oil free compressed air.

MIXING

Cartridge Set-Up: Remove twist-cap and port plug from top of cartridge. Press one of enclosed “flow restrictors” into opening. Insert one of the enclosed static mixers through twist-cap and attach to threading. Insert Sikadur® Crack Fix cartridge into good quality caulking gun. Point upward during initial squeeze of gun’s trigger to purge any entrapped air. As mixed resin approaches end of mixer, discard rest of initial squeeze and portion of next squeeze to ensure uniform blend of adhesive components.

APPLICATION METHOD / TOOLS

To gravity feed cracks - Blow vee-notched crack clean with oil-free compressed air. Dispense Sikadur® Crack Fix slowly into vee-notched crack. Continue placement until completely filled. Seal underside of slab prior to filling if cracks reflect through.

To inject cracks - Set appropriate injection ports. Seal ports and surface of crack with Sikadur® 31, Hi-Mod Gel or Sikadur® 33. When the epoxy adhesive seal has cured, inject Sikadur® Crack Fix with slow steady pressure. Consult Technical Service for additional information.

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION

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