

Sikadur® Crack Fix

Low-viscosity, high-strength epoxy sealing system

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| 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. |
| Where to Use | <ul style="list-style-type: none"> ■ Gravity-feed of cracks in horizontal concrete and masonry. ■ Low pressure injection of cracks in structural concrete, masonry, wood, etc. ■ Grouting bolts, dowels, pins, etc. into horizontal concrete surfaces. |
| Advantages | <ul style="list-style-type: none"> ■ 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. |
| Coverage | 1 cartridge yields approximately 10.7-11.0 cu. in. (175-180 ml) of usable epoxy resin. |
| Packaging | Carton contains 12 single caulk tube-style cartridges; each cartridge packaged with 2 static mixers and 2 flow restrictors. |

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.

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|---|---|---------------------------------------|---------------------|
| Shelf Life | 2 years in original, unopened containers. | | |
| Storage Conditions | Store dry at 40°-95°F (4°-35°C). Condition material to 60°-75°F (15°-24°C) before using. | | |
| Color | Clear, amber. | | |
| Mixing Ratio | Component A : Component B = 2:1 by volume. | | |
| Viscosity (Mixed) | Approximately 375 cps. | | |
| Pot Life | Approximately 25 minutes. (60 gram mass) | | |
| Tack Free Time | 40°F (4°C)* | 73°F (23°C)* | 90°F (32°C)* |
| (3-5 mils) | 14-16 hrs. | 3-3.5 hrs. | 1.5-2 hrs. |
| Tensile Properties (ASTM D-638) | | | |
| 7 day | Tensile Strength | 7,000 psi (48.3 MPa) | |
| | Elongation at Break | 6.9% | |
| Flexural Properties (ASTM D-790) | | | |
| 14 day | Flexural Strength (Modulus of Rupture) | 11,000 psi (75.9 MPa) | |
| | Tangent Modulus of Elasticity in Bending | 3.1 x 10 ⁵ psi (2,139 MPa) | |
| Shear Strength (ASTM D-732) | | | |
| 14 day | Shear Strength | 4,800 psi (33.1 MPa) | |
| Heat Deflection Temperature (ASTM D-648) | | | |
| 7 day | [fiber stress loading = 264 psi (1.8 MPa)] | 121°F (49°C) | |
| Bond Strength (ASTM C-882): Hardened concrete to hardened concrete | | | |
| 2 day | (moist cure) Bond Strength | 1,300 psi (9.0 MPa) | |
| 14 day | (moist cure) Bond Strength | 1,350 psi (9.3 MPa) | |
| Water Absorption (ASTM D-570) | | | |
| | 7 day | (24 hour immersion) | 0.27% |
| Compressive Properties (ASTM D-695) | | | |
| Compressive Strength, psi (MPa) | | | |
| | 40°F (4°C)* | 73°F (23°C)* | 90°F (32°C)* |
| 4 hour | - | - | - |
| 8 hour | - | 180 (1.2) | 3,200 (22.1) |



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| 16 hour | - | 4,500 (31.1) | 6,300 (43.5) |
| 1 day | - | 6,000 (41.4) | 9,100 (62.8) |
| 3 day | 4,000 (27.6) | 9,000 (62.1) | 10,500 (72.5) |
| 7 day | 6,800 (46.9) | 11,000 (75.9) | 10,500 (72.5) |
| 14 day | 10,300 (71.1) | 12,000 (82.8) | 10,500 (72.5) |
| 28 day | 12,400 (85.6) | 13,000 (89.7) | 10,500 (72.5) |

Compressive Modulus

7 day 2.9 X 10⁵ psi (2,000 MPa)

*Material cured and tested at the temperatures indicated.

How to Use

Surface 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 **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.

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 ¼ in. (6 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.

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