

Product Data Sheet
Edition 5.10.2012
Sikadur 55 SLV FS (Fast Set)

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Lo-Modulus, Super low-viscosity, moisture-tolerant epoxy resin, crack healer/penetrating sealer

Description Sikadur 55 SLV FS (Fast Set) is a 2-component, 100% solids, moisture-tolerant, epoxy crack healer / penetrating sealer, having a fast tack-free time to minimize downtime. It is a super low-viscosity, high-strength adhesive formulated specifically for sealing both dry and damp, existing, non-dynamic cracks.
* Except for gel time.

Where to Use

- Sikadur 55 SLV FS (Fast Set) repairs cracked concrete.
- For interior slabs and exterior above-grade slabs.
- For elevated horizontal decks, parking garages and other structures exposed to foot and pneumatic tire traffic.

Advantages

- Fast tack free time for quick turnaround.
- Super low viscosity/low surface tension for penetration into existing cracks.
- Prolongs life of cracked concrete.
- Seals/penetrates surface of slabs from water absorption, chloride-ion intrusion, and chemical attack.

Coverage 1 gal. (3.8 liters) yields 231 cu. in. (3,785 cm³)
Typical coverage is 150-175 sq. ft./gal. (3.7-4.3 m²/L) for surface sealing. Coverage varies with porosity and surface profile of substrate. Higher porosity concrete will reduce coverage. For crack healing, follow Application instructions and allow to pond over cracks.

Packaging 330 Gallon Totes

How to Use

Surface Preparation Substrate must be clean, sound and free of surface moisture. Remove dust, laitance, grease, oils, curing compounds, waxes, impregnations, foreign particles, coatings and disintegrated materials by mechanical means (i.e. shotblasting, sandblasting, etc.). For best results, substrate should be dry. Surfaces prepared by Low Pressure Water Cleaning or High Pressure Water Jetting methods should be allowed to dry for 24 hrs. minimum [at 73°F (23°C)].

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	2 years in original, unopened containers	
Storage Conditions	Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F (18°-24°C) before using.	
Color	Clear, amber	
Mixing Ratio	Component 'A' : Component 'B' = 3:2 by volume	
Viscosity (Mixed)	Approximately 140 cps	
Pot Life	Approximately 15 minutes	
Tack-Free Time	55°F (15°C)* 6 hrs.	73°F (23°C)* 3 hrs.
Tensile Properties (ASTM D-638)		
7 day	Tensile Strength	2,200 psi
	Elongation at break	90%
Compressive Strength, psi (MPa)		
7 day	2,400 (75.1)	
Tear Strength	7 days	380PSI

*Material cured and tested at the temperature indicated.



Mixing	Mix 2 Components of 'B' to 3 parts Components of 'A' by volume into a clean pail. Mix thoroughly for 3 minutes with Sika paddle or jiffy mixer on a low-speed (400-600 rpm) drill until uniformly blended. Mix only that quantity which can be used within its pot life.
Application	<p>To gravity feed cracks: Sikadur 55 SLV FS (Fast Set) is applied to horizontal surfaces by flat squeegee or broom. Spread material over area and allow to pond over cracks. Let material penetrate into cracks and substrate. Remove excess epoxy with roller leaving no visible surface film. For cracks greater than 1/8 in. (3 mm) wide, fill crack with oven-dried sand before applying Sikadur 55 SLV FS (Fast Set). Seal cracks from underside, when accessible, to prevent leakage.</p> <p>A second treatment may be required on very porous substrates. Apply second treatment before broadcasting</p> <p>After treatment, wait a minimum of 20-30 minutes at 73°F (23°C) before broadcasting sand. Cover with broadcast of an oven-dried 20/40 silica sand or similar sand. Distribute evenly over the surface to excess at a rate of 30-40 lbs./100 sq. ft.. Remove any loose sand and open to traffic once epoxy has cured. Consult Sika Technical Service at 1-800-933-SIKA for additional information.</p>
Limitations	<ul style="list-style-type: none"> ■ Do not thin. Addition of solvents will prevent proper cure. ■ Material is a vapor barrier after cure. ■ Do not apply if rain is imminent. Water exposure or humidity will affect surface appearance and may cause surface whitening. ■ Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure. ■ Sealed concrete surface may appear blotchy due to differential absorption. ■ Allow sufficient time for the substrate to dry after rain or other inclement conditions. ■ Application temperature of substrate must be minimum 5°F (3°C) above the dew point. ■ Minimum ambient and substrate temperature 40°F (4°C). Maximum application temperature 85°F. ■ Do not inject cracks greater than 1/4 in. (6 mm) Consult Technical Service at 1-800-933-SIKA. ■ Minimum age of concrete is 21-28 days, depending on curing and drying conditions. ■ Not designed to seal or inject cracks under hydrostatic pressure during application. ■ Penetration results will vary. Factors that may impede penetration include, but are not limited to, temperature (ambient and material), geometry of crack, concrete porosity, and dirt inside cracks. ■ Product is not appropriate for use in dynamic cracks.
WARNING	<p>PART A: WARNING: IRRITANT, SENSITIZER. Contains bisphenol-A-(epichlorhydrin) epoxy resin (CAS:25068-38-6); bisphenol F-(epichlorhydrin) epoxy resin (CAS:28064-14-4); [[(2-ethylhexyl)oxy]methyl]oxirane (2-ethylhexyl glycidyl ether) (CAS:2461-15-6); 1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane (CAS:17557-23-2); and 2,3-Epoxypropylneodecanoate (CAS:26761-45-5). Causes eye/skin irritation. Harmful if swallowed. May cause respiratory tract irritation. May cause allergic skin reaction after prolonged contact.</p> <p>WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.</p> <p>PART B: WARNING: CORROSIVE, SENSITIZER. Avoid direct contact. Contains Non-ylphenol (CAS:25154-52-3), m-phenylenebis(methylamine) (CAS:1477-55-0), Benzyl alcohol (CAS:100-51-6), Cycloaliphatic polyamine, 2,4,6-tris(dimethylaminomethyl) phenol (CAS:90-72-2), P-tert-butylphenol (PTBP) (CAS:98-54-4), Trimethylhexamethylenediamine (CAS:25620-58-0), and bis[(dimethylamino)methyl]phenol (CAS:71074-89-0). Causes skin/eye/digestive tract burns. May give off vapor that is very irritant/corrosive to respiratory system. Harmful if inhaled/swallowed. May cause allergic skin reaction after prolonged contact. Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal. Strictly follow all usage, handling and storage instructions.</p>

First Aid **PART A & B: Eyes** – Hold eyelids apart and flush thoroughly with water for 15 minutes. **Skin** – Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. **Inhalation** – Remove to fresh air. **Ingestion** – Do not induce vomiting. Dilute with water. Contact physician. **In all cases contact a physician immediately if symptoms persist.**

Handling and Storage **PART A & B:** Avoid direct contact. Wear personal protective equipment (chemical resistant goggles/gloves/clothing) to prevent direct contact with skin and eyes. Use only in well ventilated areas. Open doors and windows during use. Use a properly fitted NIOSH respirator if ventilation is poor. Wash thoroughly with soap and water after use. Remove contaminated clothing and launder before reuse.

Clean Up **PART A:** Use personal protective equipment (chemical resistant gloves/ goggles/clothing). Without direct contact, sweep up spilled or excess product and place in suitable sealed container. Dispose of excess product and container in accordance with applicable local, state, and federal regulations.

PART B: Avoid contact. Wear chemical resistant clothing/gloves/goggles. In absence of adequate ventilation; use a properly fitted NIOSH respirator. Uncured material can be removed with approved solvent. Follow solvent manufacturer's instructions for use and warnings. In case of spill, ventilate area and contain spill. Collect with absorbent material. Dispose of in accordance with current, applicable local, state, and federal regulations.

Cured material (when Component A combined with Component B) can only be removed mechanically.

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