

Sikadur® 35, Hi-Mod LV LPL

High-modulus, low-viscosity, high-strength,
extended pot life, epoxy adhesive

Description	Sikadur® 35, Hi-Mod LV LPL 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, Types I, II, and IV, Grade-1, Class-C** and AASHTO M-235 specifications. **except for bond strength
Where to Use	<ul style="list-style-type: none"> ■ Low pressure and high pressure injection of cracks in structural concrete, masonry, wood, etc. ■ Gravity-feed of cracks in horizontal concrete and masonry. ■ Epoxy resin binder for epoxy mortar patching and grouting. ■ Seal interior slabs and exterior above-grade slabs from water, chlorides and mild chemical attack; also improves wearability. ■ Epoxy resin binder for epoxy mortar repair for structural pile members.
Advantages	<ul style="list-style-type: none"> ■ Extended pot life. ■ Low viscosity and excellent penetrating ability. ■ Slow reaction rate and low exotherm. ■ Convenient, easy mix ratio; A:B = 2:1 by volume. ■ Unique, high-strength, structural adhesive for “can’t dry” surfaces. ■ Deep, penetrating and tenacious bonding of cracks in structural concrete. ■ Excellent chemical resistance.
Coverage	1 gal. yields 231 cu. in. of adhesive and grout. 1 gal. of adhesive, when mixed with 5 gal. by loose volume of oven-dried aggregate, yields approximately 808.5 cu. in. of epoxy mortar. Typical coverage is 150-175 ft. ² /gal. (3.7-4.3 m ² /L) for surface sealing. Coverage varies with porosity and surface profile of substrate. Higher porosity concrete will reduce coverage.
Packaging	3 gal. units. 165 gal. units.

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' = 2:1 by volume	
Viscosity (Mixed)	Approximately 250 cps.	
Pot Life	Approximately 90 minutes (250 grams). Approximately 40 minutes (250 grams) @ 100°F (38°C)	
Tensile Properties (ASTM D-638)	60°F (15°F)	73°F (23°F)
7 day Tensile Strength	7,200 psi (49.6 MPa)	7,500 psi (51.8 MPa)
Elongation at Break	4.0 %	4.8%
Heat Deflection Temperature (ASTM D-648) 7 day (Fiber Stress Loading = 264 psi)	120°F (49°C)	
Bond Strength (ASTM C-882): Hardened concrete to hardened concrete		
2 day (moist cure)	Bond Strength 1,100 psi (7.6 MPa)	
14 day (moist cure)	Bond Strength 1,300 psi (9.0 MPa)	
Water Absorption (ASTM D-570) 24 hrs. (24 hr. immersion)	0.35%	
Compressive Properties (ASTM D-695):		
Compressive Strength	73°F (23°C)	90°F (32°C)
1 day	1,450 psi (10.0 MPa)	7,100 psi (49.0 MPa)
3 day	9,600 psi (66.2 MPa)	10,000 psi (69.0 MPa)
7 day	11,800 psi (81.3 MPa)	11,100 psi (76.6 MPa)
28 day	13,000 psi (89.6 MPa)	11,300 psi (78.0 MPa)
Compressive Modulus 7 day	270 psi (1,863 MPa)	



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How to Use

Surface Preparation	<p>Surface must be clean and sound. It may be dry or damp, but free of standing water. Remove dust, laitance, grease, curing compounds, impregnations, waxes and any other contaminants.</p> <p>Preparation Work: Concrete - Should be cleaned and prepared thoroughly to achieve a laitance and contaminant free, open textured surface by blast cleaning or equivalent mechanical means.</p> <p>Steel - Should be cleaned and prepared thoroughly by blast cleaning or other equivalent mechanical means.</p>
Mixing	<p>Proportion 1 part Component 'B' to 2 parts Component 'A' by volume into a clean pail. Mix thoroughly for 3 minutes with a low-speed (400 - 600 rpm) drill using Sika Paddle until uniformly blended. Mix only that quantity that can be used within its pot life.</p> <p>To prepare an epoxy mortar slowly add 4-5 parts by loose volume of an oven-dried aggregate to 1 part of the mixed Sikadur® 35, Hi-Mod LV LPL and mix until uniform in consistency.</p>
Application	<p>To gravity feed cracks - Blow vee-notched surface of crack clean with oil-free compressed air. Pour neat Sikadur® 35, Hi-Mod LV LPL, into vee-notched crack. Continue placement until completely filled. Seal underside of slab prior to filling if cracks reflect through.</p> <p>To seal slabs - Spread neat Sikadur® 35, Hi-Mod LV LPL over slab. Allow penetration. Remove excess to prevent surface film. Seal interior slabs and above-grade exterior slabs only.</p> <p>For an epoxy mortar - Prime prepared surface with neat Sikadur® 35, Hi-Mod LV, LPL. Place prepared epoxy mortar before primer becomes tack-free. Place the epoxy mortar using trowels. Compact and level with vibrating screed or trowels. Finish with finishing trowel. Epoxy mortar is for interior use only.</p> <p>To pressure inject cracks - Suitable for low or high pressure injection. Use automated injection equipment or manual method. Set appropriate injection ports based on system used. Seal ports and crack with Sikadur® 31, Hi-Mod Gel or Sikadur® 33. When the epoxy adhesive seal has cured, inject Sikadur® 35, Hi Mod LV LPL with steady pressure. Consult Technical Service for additional information.</p>
Limitations	<ul style="list-style-type: none"> ■ Minimum application temperature 40°F (4°C). ■ Do not thin with solvents. ■ Use oven-dried aggregate only. ■ Maximum epoxy mortar thickness is 1.5 in. (38 mm) per lift. ■ Epoxy mortar is for interior use only. ■ Do not seal exterior slabs on grade. ■ Minimum age of concrete must be 21-28 days, depending upon curing and drying conditions, for mortar applications and to seal slabs. ■ Porous substrates must be tested for moisture-vapor transmission prior to mortar or sealing slabs. ■ Not for injection of cracks under hydrostatic pressure. ■ Do not inject cracks greater than 1/4 in. (6 mm) Consult Technical Service. ■ Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure.

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