

PRODUCT DATA SHEET

Sikadur[®]-35 Hi-Mod LV LPL

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

PRODUCT 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

USES

Sikadur[®]-35 Hi-Mod LV LPL may only be used by experienced professionals.

- 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.

CHARACTERISTICS / ADVANTAGES

- 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

PRODUCT INFORMATION

Packaging	3 gal. units. 165 gal. units
Color	Clear, amber.
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.

Viscosity	Approximately 250 cps.		
Compressive Strength	Time	73°F (23°C)	90°F (32°C) (ASTM D-695)
	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)
Modulus of Elasticity in Compression	270 psi (1,863 MPa)*		
	*7 days		
Tensile Strength	60°F (15°F)	73°F (23°F)	(ASTM D-638, 7 days)
	7,200 psi (49.6 MPa)	7,500 psi (51.8 MPa)	
Elongation at Break	60°F (15°F)	73°F (23°F)	(ASTM D-638, 7 days)
	4.0%	4.8%	
Tensile Adhesion Strength	Time	Bond Strength	(ASTM C-882):
	2 day*	1,100 psi (7.6 MPa)	Hardened concrete to hardened concrete
	14 day*	1,300 psi (9.0 MPa)	
	*moist cure		
Heat deflection temperature	120°F (49°C)*		
	*Fiber Stress Loading = 264 psi		
Water Absorption	0.35%*		(ASTM D-570)
	*24 hr. immersion		
Mixing Ratio	Component 'A' : Component 'B' = 2:1 by volume		
Coverage	1 gal. yields 231 in ³ of adhesive and grout.		
	1 gal. of adhesive yields approximately 808.5 in ³ of epoxy mortar when mixed with 5 gal. by loose volume of oven-dried aggregate.		
	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		
Pot Life	Approximately 90 minutes*		
	Approximately 40 minutes**		
	*250 grams		
	**250 grams at 100°F (38°C)		

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.

USES

- 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

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 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.

Concrete should be cleaned and prepared thoroughly to achieve a laitance and contaminant free, open textured surface by blast cleaning or equivalent mechanical means.

Steel should be cleaned and prepared thoroughly by blast cleaning or other equivalent mechanical means.

MIXING

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 the quantity that can be used within its pot life.

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.

APPLICATION

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.

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.

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.

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.

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Product Data Sheet

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