Sikadur[®] 35, Hi-Mod LV High-modulus, low-viscosity, high-strength

epoxy grouting/sealing/binder adhesive

Description	Sikadur [®] 35, Hi-Mod LV 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 gel time							
Where to Use	 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 overlay of interior, horizontal surfaces. Seal interior slabs and exterior above-grade slabs from water, chlorides, and mild chemical attack; also improves wearability. 							
Advantages	 Super low viscosity. 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. High-early-strength developing adhesive. Excellent chemical resistance for flooring systems. 							
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.							
Packaging	3 gal. units; 1 gal. units; 12 floz. units, 12/case.							
	Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIX DESIGNS, MIXING METHODS AND EQUIP- MENT, TEMPERATURE, APPLICATIONS METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS							
	Shelf Life 2 years in original, unopened containers.							
	Product StorageStore dry at 40°-95°F (4°-35°C).							
	Product Conditioning 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 375 cps.Pot LifeApproximately 25 minutes. (60 gram mass)							
	Tack Free Time 40°F (4°C) 73°F (23°C) 90°F (32°C)							
	(3-5 mils) Neat 14-16 hrs. 3-3.5 hrs. 1.5-2 hrs.							
	Tensile Properties (ASTM D-638) Neat Mortar							
	7 day Tensile Strength 8,900 psi (61.4 MPa) 14 day 840 psi (5.8 MPa) Elongation at Break 5.4% 0.3% 14 day Modulus of Elasticity 4.1 X 10 ⁵ psi (2,800 MPa) 7.6 X 10 ⁵ psi (5,200 MPa)							
	FlexuralProperties (ASTM D-790)14 dayFlexural Strength (Modulus of Rupture)14,000 psi (96.6 MPa)2,200 psi (15.2 MPa)Tangent Modulus of Elasticity in Bending3.7 x 10 ⁵ psi (2,600 MPa) 9.5 X 10 ⁵ psi (6,500 MPa)							
	Shear Strength (ASTM D-732) 5,100 psi (35.2 MPa) 2,300 psi (15.9 MPa)							
	T day [fiber stress loading = 264 psi (1.8 MPa)] 124°F (51°C) 129°F (54°C)							
	Bond Strength (ASTM C-882): Hardened concrete to hardened concrete							
	2 day(moist cure)Bond Strength4,000 psi (27.6 MPa)14 day(moist cure)Bond Strength2,900 psi (20.0 MPa)2 day(dry cure)Bond Strength2,800 psi (19.3 MPa)							
	Water Absorption (ASTM D-570) 7 day (24 hour immersion)0.27 %							
	Compressive Properties (ASTM D-695) Compressive Strength, psi (MPa) Neat Mortar (1:5)							
	40°F (4°C) 73°F (23°C) 90°F (32°C) 40°F(4°C) 73°F (23°C) 90°F (32°C) 4 hour - - - - 800 (5.5) 8 hour - 180 (1.2) 3,200 (22.1) - - 4,100 (28.3)							



	7 day 14 day 1	- 6 4,000 (27.6) 10 6,800 (46.9) 11 0,300 (71.1) 12 2,400 (85.6) 13	2,000 (75.9) 2,000 (82.8) 3,000 (89.7) Neat	6,300 (43.5) 9,100 (62.8) 10,500 (72.5) 10,500 (72.5) 10,500 (72.5) 10,500 (72.5) ⁵ psi (2,200 MF	6,300 (43.5) 6,800 (46.9) 7,000 (48.3) Morta		5,700 (39.3) 6,900 (47.6) 7,000 (48.3) 8,800 (60.7) 8,800 (60.7) 8,800 (60.7) si (5,600 MPa)	
How to Use Surface 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, foreign particles and disintegrated materials. Concrete - Blast clean, shot blast or use other approved mechanical means to provide an open roughened texture. Steel - Should be cleaned and prepared thoroughly by blast cleaning.							
Mixing	 Proportion 1 part Component 'B' to 2 parts Component 'A' by volume into a clean pail. Mix thoroughly for 3 minutes with Sika Paddle on low-speed (400- 600 rpm) drill until uniformly blended. Mix only that 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 and mix until uniform in consistency. 							
Application	 To gravity feed cracks - Blow vee-notched crack clean with oil-free compressed air. Pour neat Sikadur® 35, Hi-Mod LV into vee-notched crack. Continue placement until completely filled. Seal underside of slab prior to filling if cracks reflect through. To pressure-inject cracks - 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 with steady pressure. Consult Technical Service for additional information. To seal slabs - Spread neat Sikadur® 35, Hi-Mod LV 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. 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. Sikadur® 35, Hi-Mod LV mortar is for interior use only. 							
Limitations	 Minimum substrate and ambient temperature 40°F (4°C). Do not thin with solvents. Consult Technical Service at 800-933-7452. 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 on curing and drying conditions, for mortar and to seal slabs. Porous substrates must be tested for moisture-vapor transmission prior to application. Not for injection of cracks under hydrostatic pressure at the time of application. 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. 							
KEEP O REP VEEP O For fu actual befor Data : ment for ea produ SIKA the cc Buyee EXPR SHAL THE L SALE CALL Visit Regio	OR TO EACH USE OF TRUCTIONS ON THE F EET WHICH ARE AVAIL READ AND FOLLOW T NT PRODUCT DATA SH CONTAINER TIGHTLY CLOSED. K urther information and adv I Safety Data Sheets contai e using the product. In cas to each use of any Sika pro- Sheet, product label and Sa at 800-933-7452. Nothing co ich Sika product as set forf ict use. warrants this product for o urrent Product Data Sheet if r's sole remedy shall be limi tESS OR IMPLIED SHALL A L NOT BE LIABLE UNDER / JSE OF THIS PRODUCT INA L SOF SIKA PRODUCTS AF ING 201-933-8800. our website at usa.sika.c onal Information and Sal- Sika Corporation 201 Polito Avenue _yndhurst, NJ 07071 Phone: 800-933-7452	RODUCT'S MO ABLE ONLINE, 22 NOTHING CO HE WARNINGS EET, PRODUCT EEP OUT OF REACHO ice regarding tran ning physical, eco e of emergency, ca duct, the user mus fety Data Sheet wi ontained in any Sik h in the current Pr ne year from date used as directed vi ted to the purchas PPLY INCLUDING MANNER TO INFR IE SUBJECT SIK	ST CURREN AT HTTP://US NTAINED IN / AND INSTRU LABEL AND F CHILDREN. NOT sportation, han logical, toxicolo all CHEMTREC t always read at hich are availab ta materials reli roduct Data She of installation t within shelf life. e price or replac ANY WARRANT RY FOR SPECIA INGE ON ANY PA A'S TERMS AN he location of ye Inc. Wenue	F PRODUCT DA A.SIKA.COM/ O ANY SIKA MATEL CTIONS FOR EA SAFETY DATA S FOR INTERNAL CONSU dling, storage and ogical and other sal at 1-800-424-9300, and follow the warnin le online at http://u eves the user of the evet, product label a o be free from man User determines st comment of product er Y OF MERCHANTAL L OR CONSEQUEN ATENT OR ANY OTH D CONDITIONS O D CONDITIONS O	A SHEET, PRO R BY CALLING RALS RELIEVI CH SIKA PRO HEET PRIOR 1 MPTION. FOR INDUS disposal of cher ety related data. International 703 gs and instructio sa.sika.com/ or b obligation to rea do Safety Data SI ufacturing defect itability of produ ufacturing defect itability of produ ufacturing defect itability of produ seclaya CR. S. BILITY OR FITME ER INTELLECTUJ F SALE AVAILA 1-8 les office, contact a S.A. de C.V. a Calaya Km. 8.5 al Balvanera	DUCT LABEL SIKA'S TECHI SIKA'S TECHI SIKA'S TECHI SIKA'S TECHI SIKA'S TECHI SIKA'S TECHI TO PRODUCT I TRIAL USE ONLY. FOR nical products, us Read the current a 527-3887. TRIAL USE ONLY. FOR nical products, us Read the current a 527-3887. TRIAL USE ONLY. FOR nical products, us Read the current a 527-3887. TRIAL USE ONLY. FOR nical products, us Read the current a store of the product y calling Sika's Te d and follow the w neet prior to s and to meet the ct for intended us or cost of labor. NW SIKA SHALL NOT AL PROPERTY RIG BLE AT HTTP://U D0-933-SIKA NAT	AND SAFETY DATA NICAL SERVICE DE- FORTH IN THE OBLIGATION FORTH IN THE CUR- JSE. RPROFESSIONAL USE ONLY. Sers should refer to the tectual Safety Data Sheet I's most current Product chnical Service Depart- rarnings and instruction technical properties on technical properties on technical properties on a dassumes all risks. O THER WARRANTIES CULAR PURPOSE. SIKA BE RESPONSIBLE FOR SHTS HELD BY OTHERS. SISA.SIKA.COM/ OR BY	

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