Product Data Sheet Edition 10.2.2009 Identification no. 389-35N Sikadur 55 SLV

Sikadur 55 SLV

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

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Description	Sikadur 55 SLV 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 for-mulated specifically for sealing both dry and damp cracks. It conforms to the current ASTM C-881, Types I and II, Grade-1, Class-C* and AASHTO M-235 specifications. * except for gel time					
Where to Use	 Sikadur 55 SLV structurally 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	 Super low viscosity/low Penetrates cracks by g Prolongs life of cracke Penetrates/seals surfa Structurally improves Can be open to traffic High bond strength, ex 	ice of slabs from water abso concrete surface. in 6 hours at 73°F (23°C).	" / 0.05 mm) in width. rption, chloride-ion intr	usion, and chemic		
Coverage	1 gal. (3.8 liters) yields 231 cu. in. (3,785 cm ³) Typical coverage is 150-175 sq. ft./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. For crack healing, follow Application instructions and allow to pond over cracks.					
Packaging	3 gal. (11.35 l) unit = 'A' =	= 2 gal. (7.6 l) + 'B' = 1 gal. (3.8 l)			
	Typical Data [Material and curing conditions @ 73°F (23°C) and 50% R.H.] Shelf Life 2 years in original, unopened containers					
	Storage Conditions	Store dry at 40°-95°F (4°-3 before using.		rial to 65°-75°F (1	18°-24°C)	
	Color	Clear, amber				
	Mixing Ratio	Component 'A' : Componer	onent 'A' : Component 'B' = 2:1 by volume			
	Viscosity (Mixed)	Approximately 105 cps				
	Pot Life	Approximately 20 minutes				
	Tack-Free Time	40°F (4°C)* > 11 hrs.		3°F (23°C)* hrs.	90°F (32°C)* 2.5 hrs.	
	Tensile Properties (A 7 day	STM D-638)73°F (23°C)Tensile Strength7,100 psi (48.9 MPa)Elongation at break10%				
	Bond Strength (ASTM Hardened Concre	I C-882) te to Hardened Concrete	2 day (moist cure) 14 day (moist cure)	2,500 psi (17.2 2,500 psi (17.2		
	Hardened Concre	te to Steel	2 day (moist cure) 14 day (moist cure)	1,500 psi (10.3	MPa)	
	Flexural Properties (A 7 day	A STM D-790) Flexural Strength Tangent Modulus of Elastic	8,500 psi (5 sity 3.2 x 10⁵ ps	8.6 MPa) i (2,206 MPa)		
	Shear Strength (ASTM D-732)7 day5,800 psi (40.0 MPa)			0.0 MPa)		
	Heat Deflection Temperature (ASTM D-648) 7 day					
	[fiber stress loading = 264 psi (1.8 MPa) 110°F (43°C)					
	Water Absorption (ASTM D-570) 7 day (24 hour immersion) 0.60% Compressive Properties (ASTM D-695)					
		. ,				
	1 day 3 day 2	0°F (4°C)* 	73°F (23°C) * 1,100 (7.6) 8,300 (57.2)	90°F (32°C 4,800 (33.1 8,000 (55.2	1) 2)	
ka ®	14 day 9	,800 (53.8) 10,400 (71.7) ,600 (66.2) 11,000 (75.8) ,700 (80.7) 12,000 (82.7)	10,900 (75.1) 11,800 (81.4) 12,000 (82.7)	8,300 (57.2 10,000 (68.9 10,000 (68.9	9)	
	Compressive Modulu	s 7 day 3.0 x	10⁵ psi (2,068 MPa)			
•	*Material cured and tested at the	he temperature indicated				



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	on 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)].					
Mixing	Mix 1 part Component 'B' to 2 parts Component '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	To gravity feed cracks: Sikadur 55 SLV 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. Seal cracks from underside, when accessible, to prevent leakage.					
	A second treatment may be required on very porous substrates. Apply second treatment before broadcasting After treatment, wait at least 20 minutes at 73°F (23°C). 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 Allow to cure 6 hours minimum at 73°F (23°C). Re move any loose sand and open to traffic once epoxy has cured. Consult Sika Technical Service at 1-800-933-SIKA for additional information.					
	To pressure inject cracks: Use automated injection equipment. Set appropriate injection ports. Seal ports and cracks with Sikadur 31, Hi-Mod Gel, Sikadur Injection Gel or Sikadur AnchorFix-3/4. When the epoxy adhesive has cured, inject Sikadur 55 SLV with steady pressure. Consult Technical Service at 1-800-933-SIKA for additional information.					
Limitations	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 95°F (35°C). 					
	 Do not inject cracks greater than 1/4 in. (6 mm) Consult Technical Service at 1-800-933-SIKA. Minimum and of concrete is 21.28 days, depending on guing and drains conditions. 					
	 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. 					
	dyl Ether of Bisphenol A (CAS 25085-99-8). Causes eye irritation. May cause skin/respiratory irritations. Pro- longed and/or repeated contact with skin may cause allergic reaction/sensitization. May be harmful if swallowed. HMIS:H-2, F-1, R-0, PPE-C. Component 'B' - CORROSIVE, IRRITANT, SENSITIZER. Contains 2,4,6-Tri(Dimethylamino methyl) phenol (90-72-2), Amines (Mixture) and Benzyl Alcohol (100-51-6). Contact with skin and eyes causes severe burns. Causes eye/skin/respi- ratory irritation. Prolonged and/or repeated skin contact may cause an allergic reaction/sensitization. Harmful if swallowed HMIS:H-3, F-1, R-0, PPE-D. Deliberate concentrations of vapors of 'A' and/or 'B' Components for purposes of inhalation is harmful and can be fatal.					
First Aid	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 person to fresh air. Ingestion: Do not induce vomit-ing. Contact physician. In all cases, contact a physician immediately if symptoms persist.					
Handling and Stor	rage Avoid direct contact with eyes and skin. Wear chemical resistant clothing/gloves/goggles. Avoid breathing vapors. Use with adequate general and local ventilation. If ventilation is poor, use a properly fitted, NIOSH-approved respirator. Wash thoroughly after handling product. Remove contaminated clothing and launder before reuse.					
Clean Up	In case of spills ventilate area and contain spill. Collect with absorbent material. Ventilate area. Avoid contact. Dispose of in accordance with current, applicable local, state and federal regulations. Uncured material can be removed with approved solvent. Follow solvent manufacturer's instructions for use and warnings. Cured material (when component 'A' combined with Component 'B') can only be removed by mechanical means.					
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