## Sikadur<sup>®</sup> 32, Hi-Mod LPL

High-modulus, high-strength, extended pot life, epoxy bonding/grouting adhesive

Description	Sikadur <sup>®</sup> 32, Hi-Mod LPL is a multi-purpose, 2-component, 100% solids, moisture-tolerant, structural epo adhesive. Sikadur <sup>®</sup> 32, Hi-Mod LPL offers a long pot life and contact time even at 100°F (38°C). Sikad 32, Hi-Mod LPL conforms to the current ASTM C-881, Types I and II, Grade-2, Class-C and AASHTO M-2 specifications.				
Where to Use	<ul> <li>Hot weather concrete placements requiring a bonding adhesive.</li> <li>Bond fresh, plastic concrete to hardened concrete and steel.</li> </ul>				
	<ul> <li>Grout horizontal cracks in structural concrete and wood by gravity feed.</li> </ul>				
	Machinery and baseplate grout. Structural adhesities for constrate, measure, metal, wood, etc.				
Advantages	Structural adhesive for concrete, masonry, metal, wood, etc.				
Auvantages	<ul> <li>Extended pot life and contact time at elevated temperatures.</li> <li>High-strength bonding/grouting adhesive.</li> </ul>				
	<ul> <li>Tolerant of moisture before, during, and after cure.</li> </ul>				
	<ul> <li>Excellent adhesion to most structural materials.</li> <li>Convenient easy-to-mix ratio A:B = 1:1 by volume.</li> </ul>				
	<ul> <li>Easy-to-use for bonding/grouting applications.</li> </ul>				
Coverage	<ul> <li>Bonding Adhesive - 1 gal. covers approximately 80 ft.<sup>2</sup> on smooth surface.</li> <li>Base Plate Grout - 1 gal. mixed with 1 1/2 parts oven-dried aggregate by loose volume yields approximat 420 in.<sup>3</sup> of grout.</li> </ul>				
Packaging	1 and 4 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.				
	<b>Storage Conditions</b> Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F (18°-24°C) before using.				
	Color Dark gray.				
	Mixing RatioComponent 'A' : Component 'B' = 1:1 by volume.				
	Viscosity (Mixed) Approximately 2,800 cps.				
	Pot Life         Approximately 90 minutes @ 73°F (23°C). (8 fl. oz. volume)           Approximately 60 minutes @ 100°F (38°C). (8 fl. oz. volume)				
	Contact Time:Substrate Temperature40°F (4°C)73°F (23°C)90°F (32°C)				
	Material Temperature 73°F (23°C)         10-14 hr.         6-7 hr.         2-2.5 hr.           Material Temperature 100°F (38°C)         6-8 hr.         5-6 hr.         1.5-2 hr.				
	Tensile Properties (ASTM D-638) 14 dayTensile Strength5,800 psi (40.0 MPa)Elongation at Break5 %Modulus of Elasticity4.9 x 10 <sup>5</sup> psi (3,381 MPa)				
	Flexural Properties (ASTM D-790)				
	14 dayFlexural Strength (Modulus of Rupture)9,100 psi (62.8 MPa)Tangent Modulus of Elasticity in Bending7.3 X 10 <sup>5</sup> psi (5,037 MPa)				
	Shear Strength (ASTM D-732) 14 day Shear Strength 6,400 psi (44.1 MPa)				
	Water Absorption (ASTM D-570) 7 day (4 hours) 0.15%				
	Water Absorption (ASTM D-570)7 day(4 hours)0.15%Deflection Temperature (ASTM D-648)14 day108°F (42°C)				
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	Deflection Temperature (ASTM D-648)       14 day       108°F (42°C)         (fiber stress loading = 264 psi {1.8 MPa})         Bond Strength (ASTM C-882)       14 day (moist cure)       Plastic concrete to hardened concrete       2,200 psi (15.2 MPa)				
	Deflection Temperature (ASTM D-648)       14 day       108°F (42°C)         (fiber stress loading = 264 psi {1.8 MPa})         Bond Strength (ASTM C-882)       14 day (moist cure)       Plastic concrete to hardened concrete       2,200 psi (15.2 MPa)         14 day (moist cure)       Plastic concrete to steel       2,200 psi (15.2 MPa)				
	Deflection Temperature (ASTM D-648)       14 day       108°F (42°C)         (fiber stress loading = 264 psi {1.8 MPa})         Bond Strength (ASTM C-882)       14 day (moist cure)       Plastic concrete to hardened concrete       2,200 psi (15.2 MPa)				

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	Compressive Properties (ASTM D-6 Compressive Strength, psi (MPa) 1 day 3 day 7 day 14 day 28 day	40°F* (4°C)* 2,500 (17.2) 8,300 (57.2) 10,000 (68.9)	<b>73°F* (23°C)*</b> 10,700 (73.8) 11,000 (75.9) 12,000 (82.3) 13,000 (89.7)	
	Compressive Modulus * Material cured and tested at the temperatures ind	•	)⁵ psi (1,794 MPa)	
How to Use Surface Preparation	Surface must be clean and sound. It ma	who dry or damp, but f	ee of standing water. Remove dust, laitance	
	grease, curing compounds, impregnatio <b>Preparation Work: Concrete</b> - Should open textured surface by blast cleaning	ns, waxes and any othe be cleaned and prepare or equivalent mechanic	r contaminants. d to achieve a laitance and contaminant free	
Mixing	Pre-mix each component. Proportion equal parts by volume of Component 'A' and Component 'B' into clear pail. Mix thoroughly for 3 minutes with Sika paddle on low-speed (400-600 rpm) drill until blend is a uniform color. Mix only that quantity that can be applied within its pot life.			
Application	<ul> <li>To bond fresh concrete to hardened concrete - Apply by brush, roller, broom, or spray. Place fresh concrete while Sikadur® 32, Hi-Mod LPL is still tacky. If coating becomes glossy and loses tackiness, remove any surface contaminants then recoat with additional Sikadur® 32, Hi-Mod LPL and proceed.</li> <li>To grout base plates - Add 1 1/2 parts of oven-dried aggregate to 1 part of mixed Sikadur® 32, Hi-Mod LPL by volume. Place grout under baseplate. Avoid contact with the underside of the plate. A 1/4- to 3/8-in. (6-10 mm) space should remain between the top of the grout and the bottom of the plate. Maximum thickness of grout per lift is 1.5 in. (38 mm) If multiple lifts are needed, allow preceding layer to cool to touch before applying additional layer. The remaining 1/4 to 3/8-in. (6-10 mm) space should be filled with neat Sikadur® 32, Hi-Mod LPL. Pour a sufficient quantity of neat epoxy to allow the level to rise slightly higher than the underside of the bearing plate.</li> <li>To gravity feed cracks - Pour neat material into vee-notched crack. Continue placement until completely filled. Seal underside of slab prior to filling if cracks reflect through.</li> </ul>			
Limitations	<ul> <li>Minimum substrate and ambient tem</li> <li>For spray applications, consult Techr</li> <li>Use only oven-dry aggregate.</li> <li>Material is a vapor barrier after cure.</li> <li>For applications on exterior, on-grade</li> <li>Not an aesthetic product. Color may</li> </ul>	nical Service.		

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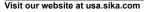
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