Product Data Sheet Edition 9.23.2014 Sikadur® 30

Sikadur[®] 30

High-modulus, high-strength, structural epoxy paste adhesive for use with Sika[®] CarboDur[®] reinforcement.

Description	Ciliadum 20 is a 2 component 100% calida maisture televent high madulus high strangth structure					
Description	Sikadur [®] 30 is a 2-component, 100% solids, moisture-tolerant, high-modulus, high-strength, structural epoxy paste adhesive. It conforms to the current ASTM C-881 Type I, IV Grade 3, Class C and AASHTO M-235 specifications.					
Where to use	 Adhesive for bonding external reinforcement to concrete, masonry, steel, wood, stone, etc. Structural bonding of composite laminates (Sika[®] CarboDur[®] CFRP) to concrete. Structural bonding of steel plates to concrete. Suitable for use in vertical and overhead configurations. As a binder for epoxy mortar repairs. 					
Advantages	 Long pot life. Long open time. Tolerant of moisture before, during and after cure. High strength, high modulus, structural paste adhesive. Excellent adhesion to concrete, masonry, metals, wood and most structural materials. Fully compatible and excellent adhesion to Sika® CarboDur® CFRP composite laminate. Paste consistency ideal for vertical and overhead applications of Sika® CarboDur®. High abrasion and shock resistance. Convenient easy mix ratio A:B=3:1 by volume. Solvent-free. Color-coded components to ensure proper mixing control. 					
Coverage	Type S 512 CarboDur®: approx. 50 LF/gal.; Type S 812 CarboDur: approx. 32 LF/gal.; Type S 1012 CarboDur®: approx. 22 LF/gal.					
Packaging	1 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 ConditionsStore dry at 40°-95°F (4°-35°C). Condition material to 65°-85°F (18°- 29°C) before using.					
	ColorLight grayMixing RatioComponent 'A': Component 'B' = 3:1 by volume.					
	Consistency Non-sag paste.					
	Pot Life Approximately 70 minutes @ 73°F (23°C) (1 qt.)					
	Tensile Properties (ASTM D-638)					
	7 dayTensile Strength3,600 psi (24.8 MPa)Elongation at Break1%Modulus of Elasticity6.5 X 105 psi (4,482 MPa)					
	Flexural Properties (ASTM D-790)					
	14 dayFlexural Strength (Modulus of Rupture)6,800 psi (46.8 MPa)Tangent Modulus of Elasticity in Bending1.7 X 106 psi (11,721 MPa)					
	Shear Strength (ASTM D-732) 14 day Shear Strength 3,600 psi (24.8 MPa)					
	Bond Strength (ASTM C-882): Hardened Concrete to Hardened Concrete					
	2 day (moist cure)Bond Strength2,700 psi (18.6 MPa)2 day (dry cure)Bond Strength3,200 psi (22.0 MPa)14 day (moist cure)Bond Strength3,100 psi (21.3 MPa)Hardened Concrete to Steel2,600 psi (17.9 MPa)					
	2 day (moist cure)Bond Strength3,000 psi (20.6 MPa)2 day (dry cure)Bond Strength2,600 psi (17.9 MPa)14 day (moist cure)Bond Strength					
	Heat Deflection Temperature (ASTM D-648)					
	7 day [fiber stress loading=264 psi (1.8 MPa)] 118°F (47°C)					
	Water Absorption (ASTM D-570) 7 day (24 hour immersion) 0.03%					



PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE-PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR-RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

	Compressive Prop		i) - Compressive Stre				
	41	40°F* (4 	°C) 73°F*	(23°C)	90°F* (32°C) 5,500 (37.9)		
		iour -	3,500	(24.1)	6,700 (46.2)		
		nour -		(46.2)	7,400 (51.0)		
	1 c	lay 750 (8		(53.7)	7,800 (53.7)		
		day 6,800 (4	,	(57.2)	8,300 (57.2)		
		lay 8,000 (5	, .	(59.3)	8,600 (59.3)		
	14 c 28 c	•	, .	(59.3) (59.3)	8,900 (61.3) 9,000 (62.0)		
	Compressive Mode		3.9 x 10⁵ psi (2,689 M	· · ·	9,000 (02.0)		
		at the temperatures indicat		,			
How to Use Surface Preparation Mixing	ICRI surface in. (1 mm). S Remove dus materials, an an appropria strength of tt by ACI 503R with concrete Concrete - B texture. Steel - Shou CarboDur [®] - Pre-mix eac clean pail or	-profile chips. Localize urface must be clean a t, laitance, grease, cur d other bond inhibiting te repair mortar (e.g., he concrete must be v , ASTM C1583) at the e substrate failure. Id be cleaned and pre Wipe clean with appr h component. Propo appropriately sized m	ed out-of-plane variation and sound. It may be dr ring compounds, impreg materials from the surfa Sikadur® 30 with the ad erified after surface pre discretion of the engine or use other approved me pared thoroughly by bla opriate cleaner (e.g. ME rtion 1 part Component ixing container. Mix tho	s, including form li y or damp, but free nations, waxes, fo ce. Existing uneve dition of 1 part ove paration by randoi er. Minimum tensile echanical means to st cleaning to a wh K). 'B' to 3 parts Con roughly for 3 minu	rofile (CSP) 3 defined by the nes, should not exceed 1/3 e of standing water and from reign particles, disintegrate in surfaces must be filled with model and). The adhesim model pull-off testing (as define e strength, 200 psi (1.4 MP poprovide an open roughene nite metal finish.		
	To prepare a	an epoxy mortar: slo	-	loose volume of a	an be used within its pot in in oven-dried aggregate to		
	a hard rubbe Remove exco not be disturl For interior	r roller, press the laminess adhesive. Glue lin bed for a minimum of the vertical and overhead	nate into the epoxy resin e should not exceed 1/8 24 hours. The epoxy wil	n until the adhesive 3 inch (3 mm). The I reach its design s material into the p	the concrete surface. Using the is forced out on both side external reinforcement must strength after 7 days. repared substrate, filling the repared substrate, filling the		
Limitations	 Do not ti Use ove Maximur Maximur Minimun Porous s 	nin. Addition of solven n-dried aggregate only n glue line of neat epo n epoxy mortar thickn n age of concrete mus substrates must be tes	ent temperature is 40°F ts will prevent proper cu y. oxy is 1/8 inch (3 mm). ess is 1 inch (25 mm) p it be 21-28 days, depen sted for moisture vapor f or may alter due to varia	re. er lift. ding upon curing a ransmission prior	to mortar applications.		
					LOW THE WARNINGS AN		
INSTRU SHEET PARTM TO RE/	JCTIONS ON THE PRO WHICH ARE AVAILAE IENT AT 800.933.7452 I AD AND FOLLOW THE	DUCT'S MOST CURF BLE ONLINE AT HTTP: NOTHING CONTAINED WARNINGS AND INS	RENT PRODUCT DATA S //USA.SIKA.COM/ OR B) IN ANY SIKA MATERIA	SHEET, PRODUCT Y CALLING SIKA' LS RELIEVES THE SIKA PRODUCT /	LABEL AND SAFETY DA S TECHNICAL SERVICE D USER OF THE OBLIGATIO AS SET FORTH IN THE CU		
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