LANCE Construction Supplies, Inc.
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SIKADUR® 32, HI-MOD

High-modulus, high-strength, epoxy bonding/grouting adhesive

DESCRIPTION

New Sikadur 32 Hi-Mod is a multi-purpose, 2-component, 100% solids, moisture-tolerant structural epoxy adhesive. It conforms to the current ASTM C-881 and AASHTO M-235, Type V specifications.

WHERE TO USE

- Bond fresh, plastic concrete to hardened concrete and steel
- Grout bolts, dowels, and pins, etc.
- Grout horizontal cracks in structural concrete and wood by gravity feed
- Machinery and 'robotic' based-plate grout
- Structural adhesive for concrete, masonry, metal, wood, etc.

ADVANTAGES

- Super-strength bonding/grouting adhesive
- Excellent adhesion to most structural materials
- Convenient easy-to-mix ration A:B = 1:1 by volume
- Fast initial set; rapid gain to ultimate strengths
- USDA approved for use in food plants

HOW TO USE

SURFACE PREPARATION -- Surface must be clean and sound. It may be dry or damp, but free of standing water.

PACKAGING AND COVERAGE

Packaged in 2 gallon units.
Bonding Adhesive -- 1 gal. covers approximately 80 sq. ft. on smooth surface
Base Plate Grout -- 1 gal. mixed with 1 1/2 parts oven dried aggregate by loose volume yields approximately 420 cu. in. of grout
Adhesive and Anchoring Grout -- 1 gal. yields 231 cu.in. of grout

TYPICAL DATA FOR SIKADUR 32, HI-MOD
(Material and curing conditions @ 73F (23C) and 50% R.H.)

COLOR	Concrete gray.		
MIXING RATIO	Component 'A': Component 'B' = 1:1 by volume.		
POT LIFE	Approximately 30 minutes. (60 gram mass)		
CONTACT TIME	**40F* (4C)** 14-16 hr	**73F* (23C)** 3.5-4 hr	**90F* (32C)** 1.5-2 hr
COMPRESSIVE MODULUS, PSI:			
7 day		2.0 X 10^5 psi (1,379 MPa)	
TENSILE PROPERTIES (ASTM D-638):			
7 day	Tensile Strength	5,100 psi (35.1 MPa)	
	Elongation at Break	1.8%	
14 day	Modulus of Elasticity	3.2 X 10^5 psi (2,207 MPa)	
FLEXURAL PROPERTIES (ASTM D-790):			
14 day	Flexural Strength (Modulus of Rupture)	7,400 psi (51 MPa)	
	Tangent Modulus of Elasticity in Bending	4.7 X 10^5 psi (3,200 MPa)	
SHEAR STRENGTH (ASTM D-732):			
14 day	Shear Strength	5,900 psi (40.6 MPa)	
BOND STRENGTH (ASTM C-882):			
2 day (moist cure)	Plastic Concrete to Hardened Concrete	1,700 psi	
14 day (moist cure)	Plastic Concrete to Hardened Concrete	2,400 psi	
	Plastic Concrete to Steel	1,900 psi	

COMPRESSIVE PROPERTIES (ASTM D-695):
COMPRESSIVE STRENGTH, PSI

	40F* (4C)	**73F* (23C)**	**90F* (32C)**
8 hour	-	-	100 (.18 MPa)
1 day	-	4,600 (31.7 MPa)	6,400 (44.1 MPa)
7 day	8,100 (55.9 MPa)	10,300 (71 MPa)	8,200 (56.5 MPa)
28 day	8,800 (60.7 MPa)	10,300 (10,300 MPa)	8,200 (56.5 MPa)

SIKADUR® 33

High-modulus, high-strength, structural, very rapid curing epoxy, smooth paste adhesive

DESCRIPTION

Sikadur 33 is a 2-component, 100% solids, moisture-tolerant, high-modulus, high-strength, structural, smooth-paste epoxy adhesive. It conforms to the current ASTM C-881 and AASHTOM-235 specifications, except for gel time.

WHERE TO USE

- Use to seal cracks and to secure injection ports in structural concrete and wood trusses prior to pressure-injection grouting.
- Anchor grouting...bolts, dowels, pins, and special fasteners

ADVANTAGES

- New smooth-paste consistency for vertical, horizontal, and overhead crack sealing
- Very rapid curing, even in thin film, for faster pressure-injection grouting
- Injection may proceed as soon as 1 hour after application
- Excellent adhesion to masonry, concrete, wood, steel and most structural materials
- Paste consistency ideal for vertical and overhead anchoring applications

HOW TO USE

SURFACE PREPARATION -- Surface must be clean and sound. It may be dry or damp, but free of standing water

COVERAGE & PACKAGING

1 gal. yields 231 cu. In. of paste adhesive
Packaged in 2 gallon units/

TYPICAL DATA FOR SIKADUR 33
(Material and curing conditions @ 73F (23C) and 50% R.H.)

COLOR	Concrete gray.		
MIXING RATIO	Component 'A': Component 'B' = 1:1 by volume.		
CONSISTENCY	Smooth-paste adhesive.		
POT LIFE	Approximately 15 minutes. (60 gram mass)		
TACK-FREE TIME	40F (4C)* 1.5-1.75 hr	73F (23C)* 25-30 min	90F (32C)* 20-25 min
TENSILE PROPERTIES (ASTM D-638)			
1 day	Tensile Strength	3,300 psi	(22.7 MPa)
FLEXURAL PROPERTIES (ASTM D-790)			
1 day	Flexural Strength	4,800 psi	(33.1 MPa)
SHEAR PROPERTIES (ASTM D-732)			
1 day	Shear Strength	2,200 psi	(15.17 MPa)
BOND STRENGTH (ASTM C-882): Hardened concrete to hardened concrete			
2 day	(dry cure) Bond Strength	3,000 psi	(20.6 MPa)

COMPRESSIVE PROPERTIES (ASTM D-695)
COMPRESSIVE STRENGTH, PSI

	40F (4C)*	73F (23C)*	90F (32C)*
1 hour	30 (.20 MPa)	5,600 (38.6 MPa)	4,600 (31.7 MPa)
8 hour	6,300 (43.4 MPa)	8,200 (56.5 MPa)	6,600 (45.5 MPa)
1 day	7,400 (51 MPa)	8,600 (59.3 MPa)	7,300 (50.3 MPa)
7 day	8,300 (57.2 MPa)	9,200 (63.4 MPa)	7,800 (53.7 MPa)
28day	8,600 (59.3 MPa)	9,400 (64.8 MPa)	8,300 (57.2 MPa)