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SIKADUR® 31, HI-MOD GEL

High-modulus, high-strength, structural, epoxy paste adhesive

DESCRIPTION

Sikadur 31, Hi-Mod Gel, is a 2-component, 100% solids, moisture tolerant, high modulus, high-strength, structural epoxy paste adhesive. It conforms to the current ASTM C-881 and AASHTOM-235 specifications.

WHERE TO USE

- Structural bonding of concrete, masonry, metals, wood, etc. to a maximum glue line of 1/8"
- Grout bolts, dowels, pins, vertical and overhead, etc.
- Seals cracks and around injection ports prior to pressure injection grouting
- Interior, vertical, and overhead repair of concrete as an epoxy mortar binder
- As a pick-proof sealant around windows, doors, lock-ups etc. inside correctional facilities

HOW TO USE

SURFACE PREPARATION

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

PACKAGING & COVERAGE

Packaged in 3 gallon units
1 gallon yields 231 cu. in. of epoxy paste adhesive and grout.

1 gallon mixed with 1 gallon by loose volume of oven dried aggregate yields approximately 346 cu. in. of epoxy mortar

TYPICAL DATA FOR SIKADUR 31, HI-MOD GEL (Material and curing conditions @ 73F and 50% R.H.)

COLOR	Concrete gray		
MIXING RATIO --	Component 'A', Component 'B' = 2:1 by volume		
CONSISTENCY --	Non-sag paste		
POT LIFE --	Approximately 30 minutes @73F (60 gram mass)		
TACK FREE TIME --	2-3 hours		
COMPRESSIVE STRENGTH (ASTM C-695)			
Compressive Strength, psi	40F	73F	90F
4 hour	-	140	5400
1 Day	3900	9800	11,700
28 Days	11,200	12,000	13,000
TENSILE PROPERTIES (ASTM D-638)			
14 Day Tensile Strength	3600 psi	(24.8 MPa)	
FLEXURAL PROPERTIES (ASTM C-790)			
14 Days Flexural Strength (Modulus of Rupture)	4400 psi	(30.3 MPa)	
SHEAR STRENGTH (ASTM D-732)			
14 Day Shear Strength	3400 psi	(23.4 MPa)	
BOND STRENGTH (ASTM C-882) Hardened Concrete to Hardened Concrete			
2 day (moist cure) Bond Strength	2300 psi	(15.9 MPa)	
14 day (moist cure) Bond Strength	2400 psi	(16.6 MPa)	

SIKADUR® 55 SLV

Super low-viscosity, moisture-tolerant epoxy resin, crack healer | penetrating sealer (Interior & Exterior)

DESCRIPTION

Sikadur 55 SLV is a patented, 2-component, 100% solids, moisture-tolerant, epoxy crack healer/penetrating sealer, having a fast traffic time to minimize downtime. It is a super low-viscosity, high-strength adhesive formulated specifically for grouting both dry and damp cracks. It conforms to the current ASTM C-881 and AASHTO M-235 specifications

WHERE TO USE

- Sikadur 55 SLV structurally repairs cracked concrete
- Seals surface of interior slabs and exterior, above-grade slabs from water, chlorides, and chemical attack
- For horizontal decks, slabs, patios, driveways, parking garages, and other structures exposed to foot and pneumatic tire traffic.

ADVANTAGES

- Penetrates cracks by gravity down to 0.004" in width (4 mils)
- Structurally improves concrete surface
- Open to traffic in 6 hours
- Super low viscosity for easy, topical applications and excellent penetration into cracks
- As a penetrating sealer, Sikadur 55 SLV reduces water absorption and chloride ion intrusion

TYPICAL DATA FOR SIKADUR 55, SLV (Material and curing conditions @ 73F and 50% R.H.)

COLOR	clear, amber		
MIXING RATIO --	Component 'A', Component 'B' = 2.5 : 1 by volume		
POT LIFE --	Approximately 25 minutes		
TACK FREE TIME --	40F -----	60F 16 hours	73F 6 hours
COMPRESSIVE STRENGTH (ASTM D-695)			
Compressive Strength, psi	40F	60F	73F
1 day	-	250	5150
7 day	7900	13,700	14,800
28 Days	13,000	14,000	15,800
TENSILE PROPERTIES (ASTM D-638)			
7 day Tensile Strength	40F -----	60F 5000 psi	73F 7500 psi
Elongation at Break	-----	1.6%	2.3%
FLEXURAL PROPERTIES (ASTM C-790)			
7 Day Flexural Strength	9500 psi		
Tangent modulus of elasticity	4.8 x 10		
SHEAR STRENGTH (ASTM D-732)			
7 Day Shear Strength	7600 psi (52.4 MPa)		
BOND STRENGTH (ASTM C-882) Hardened Concrete to Hardened Concrete			
14 day (moist cure)	2700 psi	(18.6 MPa)	
Hardened concrete to steel			
14 day (moist cure)	2100 psi	(16.6 MPa)	

COVERAGE & PACKAGING

1 gal. yields 231 cu. in.
Typical coverage is 100-150 sq. ft./gal. for crack healing and surface sealing. Coverage varies with porosity and surface profile. Packaged as 3.5 gal. unit (2.5 gal. 'A' and 1.0 gal. 'B' in 5 gal. pail)