Sikadur[®] 31, Hi-Mod Gel LPL

High-modulus, high-strength, structural, extended pot life, epoxy paste adhesive

Description	Sikadur [®] 31, Hi-Mod Gel LPL is a 2-component, 100% solids, moisture-insensitive, high-modulus, high-strength, structural epoxy paste adhesive. It conforms to the current ASTM C-881, Types I and IV, Grade-3, Class-C and AASHTO M-235 specifications.
Where to Use	 Structural bonding of concrete, masonry, metals, wood, etc. to a maximum glue line of 1/8 in. (3mm). 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.
Advantages	 Extended pot life. Moisture-tolerant before, during, and after cure. High-modulus, high-strength, structural paste adhesive. Excellent adhesion to concrete, masonry, metals, wood, and most structural materials. Paste consistency ideal for vertical and overhead applications. Fast-setting and strength-producing adhesive. Convenient easy mix ratio A:B = 2:1 by volume.
Coverage	1 gal. yields 231 cu. in. of epoxy paste adhesive and grout. 1 gal. mixed with 1 gal. by loose volume of oven-dried aggregate yields approximately 346 cu. in. of epoxy mortar.
Packaging	3-gal. units.

Typical Data (Mate	rial and curing conditions @ 73°F (23°C) and 50% R.H.)	
	UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMEN METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.	
Shelf Life	2 years in original, unopened containers.	
•	Store dry at 40°-95°F (4°-35°C). Condition material to 65°- 75°F (18°-24°C) before using.	
Color	Concrete gray	
Mixing Ratio	Component 'A' : Component 'B' = 2:1 by volume	
Consistency	Non-sag paste	
	Approximately 120 minutes @ 73°F (23°C) (gallon volume) Approximately 60 minutes @ 90°F (32°C) (gallon volume)	
Tack-Free Time	6-8 hours	
Bond Strength (ASTM 2 day 14 day (moist c	C-882): Hardened Concrete to Hardened Concrete Bond Strength 2,000 psi (20.7 MPa) ure) Bond Strength 2,300 psi (20.0 MPa)	
Heat Deflection Tempe 7 day [fiber stree	e rature (ASTM D-648) ess loading = 264 psi (1.8 MPa)] 124°F (51°C)	
Compressive Propertie Compressive Strength		



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.

How to Use	
Surface Preparation	Surface must be clean and sound. It may be dry or damp, but free of standing water. Remove dust, laitance, grease, curing compounds, impregnations, waxes, foreign particles, disintegrated materials and any other contaminants. Preparation Work: Concrete - Sandblast or use other approved mechanical methods. Steel - Blast clean or use other equivalent mechanical means to achieve a white metal finish.
Mixing	Pre-mix each component. Proportion 1 part Component 'B' to 2 parts Component 'A' by volume into a clean pail. Mix thoroughly for 3 minutes with Sika paddle on low-speed (400 - 600 rpm) drill unti uniform in color. Mix only that quantity that can be used within its pot life.
	To prepare an epoxy mortar: Slowly add up to 1 part by loose volume of an oven-dried aggregate to 1 part of the mixed Sikadur [®] 31, Hi-Mod Gel LPL and mix until uniform in consistency.
Application	As a structural adhesive - Apply the neat mixed Sikadur [®] 31, Hi-Mod Gel LPL, to the mating or non- mating prepared substrates. Work into the substrate for positive adhesion. Secure the bonded unit firmly into place until the adhesion has cured. Glue line should not exceed 1/8 in. (3 mm).
	To seal cracks for injection grouting - Place the neat mixed material over the cracks to be pressure injected and around each injection port. Allow sufficient time to set before pressure injecting.
	For interior vertical and overhead patching - Place the prepared mortar in void, working the material into the prepared substrate, filling the cavity. Strike off level. Lifts should not exceed 1 in. (25 mm).
	As a pick-proof sealant - Use automated or manual method. Apply an appropriate size bead of mate- rial around the area being sealed. Seal with neat Sikadur® 31, Hi-Mod Gel LPL.
Limitations	 Minimum substrate and ambient temperature 40°F (4°C). Do not thin. Addition of solvents will prevent proper cure. Use oven-dried aggregate only. Maximum epoxy mortar thickness is 1 in. (25 mm) per lift. Epoxy mortar is for interior use only. Material is a vapor barrier after cure. Minimum age of concrete must be 21-28 days, depending upon curing and drying conditions, for mortar applications. Porous substrates must be tested for moisture-vapor transmission prior to mortar applications. Not for sealing cracks under hydrostatic pressure at the time of application. Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure.

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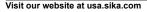
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