BUILDING TRUST

PRODUCT DATA SHEET

Sikadur®-22 Lo-Mod LT

Low-modulus, fast-setting, medium viscosity, urethane modified, epoxy resin binder for low-temperature applications

PRODUCT DESCRIPTION

Sikadur 22, Lo-Mod LT is a 2-component, 100% solids, moisture-tolerant, urethane modified, epoxy binder capable of curing quickly at temperatures below 50F. It conforms to the current ASTM C-881* Type III, Grade 2, Class B & C and AASHTO M-235 specifications. * Except Gel Time

USES

Sikadur®-22 Lo-Mod LT may only be used by experienced professionals.

Use neat as the binder resin for a skid-resistant broadcast overlay. Use also as the binder resin for epoxy mortar and concrete for patching and overlays.

CHARACTERISTICS / ADVANTAGES

- Fast setting for quick turn around
- Meets 3 hr/1000 psi requirement when mixed as an epoxy mortar
- Tolerant to moisture both before and after cure
- Convenient easy mix ratio A:B = 1:1 by volume
- Excellent strength development
- Leveling viscosity for easy, efficient application of a broadcast overlay
- Tack-free in 3.5 hours at 50°F (10°C)
- Can condition material at elevated temperatures for faster cure rates

PRODUCT INFORMATION

Chemical Base	epoxy resin	
Packaging	4 gal., 110 gallon, 660 gallon totes. Note: Part A of the Sikadur 22 Lo-Mod, Sikadur 22 Lo-Mod FS, Sikadur 22 Lo-Mod LT and Sikadur 21 Lo-Mod LV is a universal component of these four products.	
Color	amber	
Shelf Life	2 years in original, unopened containers	
Storage Conditions	Store dry at 40°-95°F (4°-35°C). Condition material to 65°-85°F (18°-29°C) before using.	
Viscosity	1,300-1,500 cps	
Shore D Hardness	78	(ASTM D2240)

Compressive Strength	**Time**	**40°F**	**73°F** (ASTM C579)
	3 hrs	>1,500 psi	>5,000 psi
	24 hrs	>5,000 psi	>7,000 psi
	7 days	>8,000 psi	>8,000 psi
Tensile Strength	7 days	>3,000 psi	(ASTM D638)
Elongation at Break	7 days	>30%	(ASTM D638)
Tensile Adhesion Strength	24 hrs	>250 psi (substrate failure)	(ASTM D4541)
Water Absorption	7 days	<0.15%	(ASTM D570)
Mixing Ratio	Comp. "A": Comp. "B" = 1:1 by volume		
Coverage	1 gal. yields 231 in^3 For traffic overlay - 1 gal yields ~32 ft^2 Mortar Binder - 1 gal. of mixed Sikadur® 22 Lo-Mod LT with the addition of 5 gal. by loose volume of an oven dried sand, yields approximately 808 cu. in. of epoxy mortar.		
Contact time	Gel Time (60g)	10 min	(ASTM C881)

Cure Time	**Substrate Temperature**	**Tack Free Time**
	40°F	<3 hrs
	50°F	<2 hrs
	73°F	~1 hr

SUBSTRATE 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 and any other contaminants.

Concrete - Should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by blast cleaning or equivalent mechanical means.

Steel - Should be cleaned and prepared thoroughly by blast cleaning to white metal finish.

MIXING

Pre-mix each component. Proportion equal parts by volume of Component 'A' and 'B' into clean pail. Mix thoroughly for 3 min. with Sika paddle on low-speed (400-600 rpm) drill until uniformly blended. Mix only that quantity that can be used within pot life.

To prepare epoxy mortar - Slowly add 5 parts by loose volume of oven-dried sand to 1 part mixed resin

APPLICATION METHOD / TOOLS

Broadcast Overlay - Prime the prepared substrate with Sikadur®-22 Lo-Mod LT. While primer is still tacky, spread mixed Sikadur®-22 Lo-Mod LT with a 3/16 in. notched squeegee. When material levels, broadcast the oven-dried aggregate slowly allowing it to settle in the epoxy binder. Ultimately the broadcast aggregate should be applied to excess at a rate of 1.5 - 2 lbs./ft^2. Remove excess broadcast aggregate after epoxy has set. Priming is an optional step in the broadcast overlay applications.

Epoxy Mortar - Prime prepared substrate with mixed Sikadur®-22 Lo-Mod LT. While primer is still tacky, apply epoxy mortar by trowel or vibrating screed. Finish with finishing trowel. Priming is mandatory when using the Sikadur®-22 Lo-Mod LT as an epoxy mortar.

LIMITATIONS

- Minimum substrate and ambient temperature 40°F (4°C).
- Minimum age of concrete before application is 21-28 days depending upon curing and drying conditions.
- For on grade, split-slab and unvented metal pan deck, please consult Sika Technical Service regarding moisture limitations.
- Maximum thickness 1/2 in. (13 mm) exterior exposed to thermal change.
- Do not dilute. Addition of solvents will prevent proper cure.
- Use oven-dried aggregates only.
- Material is a vapor barrier after cure.
- Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure.
- For HFST applications, system and application details are governed by local DOT & AASHTO specification.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

LEGAL DISCLAIMER

- **KEEP CONTAINER TIGHTLY CLOSED**
- **KEEP OUT OF REACH OF CHILDREN**
- **NOT FOR INTERNAL CONSUMPTION**
- **FOR INDUSTRIAL USE ONLY**
- **FOR PROFESSIONAL USE ONLY**

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