

PRODUCT DATA SHEET

Sikadur[®]-25 Lo-Mod EPU

Sikadur[®] 25 Lo-Mod is a 2-component, 100 % solids, moisture-tolerant, low viscosity, epoxy-urethane resin binder

PRODUCT DESCRIPTION

Sikadur[®]-25 Lo-Mod EPU is a 2-component, 100 % solids, moisture-tolerant, low viscosity, epoxy-urethane resin binder. It conforms to the current ASTM C-881, Type III, Grade 1, Class-C specifications.

USES

Use neat as the binder resin for a skid-resistant broadcast overlay.

CHARACTERISTICS / ADVANTAGES

- 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.

PRODUCT INFORMATION

| | |
|--------------------|--|
| Packaging | 110 gallon units (drums); 660 gal units (totes) |
| Color | Light Blue |
| Shelf Life | 2 years in original, unopened containers. |
| Storage Conditions | Store dry at 40–95 °F (4–35 °C). Condition Material 65–85 °F (18–29 °C) before using. |
| Viscosity | Approximately 2,000–2,500 cps. |

TECHNICAL INFORMATION

| | | | | |
|------------------|---|-------------------|-------------|---------------|
| Shore A Hardness | | Mortar 1:3 | Neat | (ASTM D-2240) |
| | - | - | 72 | |

| Compressive Strength | | 40 °F (4 °C) | 73 °F (23 °C) | 90 °F (32 °C) | (ASTM D-695), Mortar 1:3 |
|----------------------|----------------|--------------|---------------|---------------|-----------------------------|
| | 3 hours | | | 800 psi | |
| 8 hours | 2,000 psi | 2,000 psi | 2,000 psi | 6,400 psi | |
| 1 day | 4,500 psi | 5,000 psi | 5,000 psi | 8,000 psi | |
| 3 days | 5,500 psi | 7,500 psi | 7,500 psi | 8,500 psi | |
| 7 days | 8,500 psi | 8,500 psi | 8,500 psi | 9,000 psi | |
| 14 days | 9,000 psi | 9,000 psi | 9,000 psi | 9,000 psi | |
| 28 days | 9,000 psi | 9,000 psi | 9,000 psi | 9,000 psi | |

| Modulus of Elasticity in Compression | | | | (ASTM D-695) |
|--------------------------------------|--------|------------|------------|--------------|
| | 7 days | | 40,000 psi | |
| 28 days | | 40,000 psi | | |

| Flexural Strength | | Mortar 1:3 | Neat | (ASTM D-790) |
|-------------------|--------|------------|------------------------------|--------------|
| | 7 days | - | >5,000 psi psi (34.5 MPa) | |

| Tensile Strength | | Mortar 1:3 | Neat | (ASTM D-638) |
|------------------|--------|------------|------------------------|--------------|
| | 7 days | - | > 3,500 psi (20.7 MPa) | |

| Elongation at Break | | Mortar 1:3 | Neat | (ASTM D-638) |
|---------------------|--------|------------|--------|--------------|
| | 7 days | - | > 40 % | |

| Tensile Adhesion Strength | | Mortar 1:3 | Neat | (ASTM C-1583; ACI 503R) |
|---------------------------|-------|---------------------------------|------|----------------------------|
| | 1 day | > 550 psi (concrete failure) | - | |

| Abrasion Resistance | | Mortar 1:3 | Neat | (Taber Abrader) Weight loss, 1,000 cycles |
|---------------------|---------|--|--|---|
| | 14 days | 2.0 gm H-22 wheel; 1,000 gm weight | 0.030 gm C-17 wheel; 1,000 gm weight | |

| Water Absorption | | Mortar 1:3 | Neat | (ASTM D-570) (24 hour immersion) |
|------------------|--------|------------|----------|-------------------------------------|
| | 7 days | - | < 0.20 % | |

APPLICATION INFORMATION

| Mixing Ratio | Component 'A':Component 'B' = 1:1 by volume. | | | | | | | | | | | | |
|----------------|---|---------------|---------------|---------------|---------------|----------------|---------|-------------|---------|--------------|----------|-----------|-----------|
| Coverage | 1 gal. yields 231 cu. in. Mortar Binder - 1 gal. of mixed Sikadur®-25 Lo-Mod EPU with the addition of 5 gal. by loose volume of an oven dried sand, yields approximately 808 cu. in. of epoxy mortar. | | | | | | | | | | | | |
| Pot Life | Approximately 15–20 minutes (60 gram mass; ASTM C881). | | | | | | | | | | | | |
| Cure Time | <table border="1"> <thead> <tr> <th></th> <th>40 °F (4 °C)</th> <th>73 °F (23 °C)</th> <th>90 °F (32 °C)</th> </tr> </thead> <tbody> <tr> <td>Tack-Free Time</td> <td>8 hours</td> <td>2.5–3 hours</td> <td>2 hours</td> </tr> <tr> <td>Traffic Time</td> <td>24 hours</td> <td>3.5 hours</td> <td>2.5 hours</td> </tr> </tbody> </table> | | 40 °F (4 °C) | 73 °F (23 °C) | 90 °F (32 °C) | Tack-Free Time | 8 hours | 2.5–3 hours | 2 hours | Traffic Time | 24 hours | 3.5 hours | 2.5 hours |
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APPLICATION INSTRUCTIONS

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. **Preparation Work:**
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 or equivalent mechanical means to white metal finish.

MIXING

Pre-mix each component. Take care as premixing of unfilled resins may entrain excessive air. 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 of mixed Sikadur®-25 Lo-Mod EPU until uniform in consistency.

APPLICATION METHOD / TOOLS

Broadcast Overlay- Prime the prepared substrate with Sikadur®-25 Lo-Mod EPU. While primer is still tacky, spread mixed Sikadur®-25 Lo-Mod EPU 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 2 lbs./sq. ft. 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®-25 Lo-Mod EPU. While primer is still tacky, apply epoxy mortar by trowel or vibrating screed. Finish with finishing trowel. Priming is mandatory when using the Sikadur®-25 Lo-Mod EPU as an epoxy mortar.

LIMITATIONS

- Minimum substrate and ambient temperature 40 °F (4 °C)
- For on grade, split-slab and unvented metal pan deck, please consult Sika Technical Service regarding moisture limitations.
- Minimum age of concrete before application is 21–28 days depending upon curing and drying conditions.
- Do not use on exterior slab on grade.
- 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.

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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Product Data Sheet

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