



PRODUCT DATA SHEET

Sikadur[®]-22 Lo-Mod FS

Low-modulus, fast-setting, medium-viscosity, epoxy resin binder

PRODUCT DESCRIPTION

Sikadur[®]-22 Lo-Mod FS is a 2-component, 100 % solids, moisture-tolerant, fast-setting epoxy resin binder.

WHERE TO USE

Sikadur[®]-22 Lo-Mod FS may only be used by experienced professionals.

- As resinous binder, used neat, for skid-resistant broadcast overlays
- Incorporated as an extra heavy-duty wear layer in the Sikalastic[®]-3900 parking deck membrane system
- As resinous binder for epoxy mortar and concrete for patching and overlays

CHARACTERISTICS / ADVANTAGES

- Fast-setting for quick turn around
- Meets 3 h / 6.9 MPa (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
- Levelling viscosity for easy, efficient application of a broadcast overlay
- Can be installed independently or over Sikalastic 390[®]-Membrane as an extra heavy-duty wear course as a part of the Sikalastic[®]-3900 system
- Enhanced wear and durability when used with traprock #9 (Sikadur[®]-229) or traprock #8 aggregate
- Successfully used in HFST (High Friction Surface Treatment) applications. Refer to local DOT specifications for product acceptance

APPROVALS / CERTIFICATES

ASTM C881 (Type III*) and AASHTO M235 specifications

* Except gel time

PRODUCT INFORMATION

Composition / Manufacturing	Epoxy resin
Packaging	15.14 L (4 US gal) units
Colour	Clear to light amber
Shelf Life	24 months in original, unopened containers
Storage Conditions	<ul style="list-style-type: none">▪ Store dry between 4–35 °C (40–95 °F)▪ Condition product at temperatures between 18–29 °C (65–85 °F) before using

Volatile organic compound (VOC) content <20 g/L

Viscosity 2,000 cps

TECHNICAL INFORMATION

Shore D Hardness 72 (ASTM D2240)

Abrasion Resistance

	Mortar 1:3	Neat	(Taber Abrader)
14 days, Weight loss, 1000 cycles*	2.0 g	0.030 g	

* (H-22 wheel; 1000 g weight for mortar / C-17 wheel, 1000 g weight, neat)

Compressive Strength

	4 °C (40 °F)	23 °C (73 °F)	32 °C (90 °F)	(ASTM C579)
3 hours	-	12 MPa (1750 psi)	24.8 MPa (3600 psi)	
8 hours	13.8 MPa (2000 psi)	30.3 MPa (4400 psi)	44.1 MPa (6400 psi)	
1 day	31 MPa (4500 psi)	44.8 MPa (6500 psi)	55.1 MPa (8000 psi)	
3 days	37.9 MPa (5500 psi)	51.7 MPa (7500 psi)	58.6 MPa (8500 psi)	
7 days	58.6 MPa (8500 psi)	58.6 MPa (8500 psi)	62 MPa (9000 psi)	
14 days	62 MPa (9000 psi)	62 MPa (9000 psi)	62 MPa (9000 psi)	
28 days	62 MPa (9000 psi)	62 MPa (9000 psi)	62 MPa (9000 psi)	

Material cured and tested at the temperatures indicated and 50 % R.H.

Modulus of Elasticity in Compression

7 days	275.7 MPa (40 000 psi)	(ASTM C579)
28 days	275.7 MPa (40 000 psi)	

Tensile Strength

	Mortar 1:3	Neat	(ASTM D638)
7 days	8.2 MPa (1200 psi)	18.2 MPa (2650 psi)	

Elongation at Break

	Mortar 1:3	Neat	(ASTM D638)
7 days	40 %	55 %	

Shear Strength

	Mortar 1:3	Neat	(ASTM D732)
7 days	17.8 MPa (2595 psi)	23.5 MPa (3422 psi)	

Pull-Off Strength

	Mortar 1:3	Neat	(ASTM C1583)
1 day	-	3.8 MPa (551 psi) (concrete failure)	
7 days	-	3.9 MPa (565 psi) (concrete failure)	

Thermal Compatibility Pass (ASTM C884)

Chloride Ion Diffusion Resistance 0 coulombs (ASTM C1202 / AASHTO T 277)

Water Absorption

	Mortar 1:3	Neat	(ASTM D570)
7 days (24 h immersion)	-	< 0.20 %	

APPLICATION INFORMATION

Mixing Ratio	Component A : Component B= 1:1 by volume.	
Consumption	<ul style="list-style-type: none">▪ Epoxy binder: 1 L of Sikadur®-22 Lo-Mod FS = 1 m² of epoxy binder at 1 mm thickness (40 mil)▪ Mortar binder: 1 L of mixed Sikadur®-22 Lo-Mod FS with the addition of 5 L by loose volume of oven-dried sand will provide 0.0034 m³ (3.4 L).	
Pot Life	Approximately 15–20 minutes	(60 gram mass; ASTM C881)

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

Product properties tested at 23 °C (73 °F) 50 % R.H. unless otherwise stated.

LIMITATIONS

- Minimum substrate and ambient temperature: 4 °C (40 °F) / maximum 35 °C (95 °F)
- Porous substrates must be tested for moisture-vapour transmission prior to applications (Ref. ASTM D4263)
- Minimum age of concrete before application 21–28 days depending upon curing and drying conditions
- For on grade, split-slab and unvented metal pan deck, contact Sika Canada Technical Service regarding moisture limitations
- Maximum thickness: 13 mm (1/2 in) exterior exposed to thermal change
- Do not dilute. Addition of solvents will prevent proper cure and void any applicable Sika warranty
- Use oven-dried aggregates only
- Material is a vapour barrier after cure
- Not an aesthetic product. Colour may alter due to variations in lighting or UV exposure
- For HFST applications, system and application details are governed by local DOT & AASHTO specification

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

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

SUBSTRATE PREPARATION

Remove any dust, laitance, grease, oil, dirt, curing agents, impregnations, wax, foreign matter, coatings, contaminants and any other bond inhibiting material.

Concrete: Should be cleaned and prepared to achieve a laitance and contaminant-free, open and textured surface (surface profile CSP-3, minimum) by blast-cleaning or equivalent mechanical means.

Steel: Steel substrates must be cleaned and prepared thoroughly by blast-cleaning to white metal finish (SP-10).

MIXING

Pre-mix each component of Sikadur®-22 Lo-Mod FS separately. Empty component B in the correct mix ratio into the component A container. Mix the combined components for three (3) minutes, using a low-speed drill (300 - 450 rpm) to minimize entrapping air. Use a *Jiffy*® or *Exomixer*® type mixing paddle (recommended model) suited to the volume of the mixing container. During the mixing operation, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once, to ensure complete mixing. When completely mixed, Sikadur®-22 Lo-Mod FS should be uniform in colour and consistency.

Do not mix more material than can be applied within the working time limits (pot life).

Epoxy mortar preparation: Slowly add five (5) parts by loose volume of oven-dried sand to one (1) part of mixed A and B component (binder).

APPLICATION METHOD / TOOLS

Broadcast Overlay: Apply mixed Sikadur®-22 Lo-Mod FS with a 5 mm (3/16 in) notched squeegee at a rate of 0.8 – 1.0 m²/L (32 – 40 ft²/US gal), 40 – 50 mil w.f.t./d.f.t. by calculation. When material levels, broadcast immediately with Sikadur®-229, slowly allowing it to settle in the epoxy binder (contact Sika Canada for alternate aggregate type and granulometry). Broadcast aggregate to "rejection" (dry appearance, no wet spots). Carefully remove loose aggregate when binder sets sufficiently to accept foot traffic. Repeat application for second layer.

Contact Sika Canada for recommendations on priming and levelling excessively porous or uneven surfaces.

Extra Heavy-Duty Wear Layer in Sikalastic®-3900 System: Apply Sikadur®-22 Lo-Mod FS onto cured Sikalastic®-3900 Membrane (within re-coat window). Spread mixed Sikadur®-22 Lo-Mod FS with a 5 mm (3/16 in) notched squeegee at a rate of 0.8 – 1.0 m²/L (32 – 40 ft²/US gal), 40 – 50 mil w.f.t./d.f.t. by calculation. When material levels, broadcast immediately with Sikadur®-229, slowly allowing it to settle in the epoxy binder (contact Sika Canada for alternate aggregate type and granulometry). Broadcast aggregate to "rejection" (dry appearance, no wet spots). Carefully remove loose aggregate when binder sets sufficiently to accept foot traffic. Repeat application for optional second layer

Epoxy Mortar: Prime prepared substrate with mixed Sikadur®-22 Lo-Mod FS. 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 FS as an epoxy mortar.

CLEAN UP

Uncured material can be removed with appropriate solvents, such as xylene. Strictly follow solvent manufacturer's warnings and instructions for use. Cured material can only be removed mechanically.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

Sika Canada Inc.

Head Office
601, avenue Delmar
Pointe-Claire, Quebec
H9R 4A9
1-800-933-SIKA
www.sika.ca

Other locations

Boisbriand (Quebec)
Brantford; Cambridge;
Sudbury; Toronto (Ontario)
Edmonton (Alberta)
Surrey (British Columbia)

LEGAL NOTES

The information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca

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Product Data Sheet

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