Jika®

BUILDING TRUST

PRODUCT DATA SHEET Sikadur®-23 Lo-Mod Gel

LOW-MODULUS, PASTE-CONSISTENCY, EPOXY RESIN BINDER

PRODUCT DESCRIPTION

Sikadur[®]-23 Lo-Mod Gel, is a 2-component, 100 % solids, moisture-tolerant, low-modulus, non-sag paste-consistency, epoxy resin binder. It conforms to the current ASTM C-881 and AASHTO M-235 specifications.

USES

Sikadur[®]-23 Lo-Mod Gel may only be used by experienced professionals.

- Use as a binder for epoxy mortar repairs
- As a pick-proof sealant around windows, doors, lockups, etc., inside correctional facilities, schools and institutions

CHARACTERISTICS / ADVANTAGES

- Non-sag consistency
- Convenient easy to mix ratio A:B = 1:1 by volume
- Moisture-tolerant epoxy adhesive binder

PRODUCT INFORMATION

Packaging	4 gal. (15 L) units				
Color	Concrete gray				
Shelf Life	24 months in original, unopened containers				
Storage Conditions	Store dry at 40–95 °F (4–35 °C). Condition material to 65–75 °F (18–24 °C) before using.				
Consistency	Non-sag paste				

TECHNICAL INFORMATION

Compressive Strength		Mortar 1:1			Neat		
			73 °F (23 °C)	90 °F (32 °C)	73 °F (23 °C)	90 °F (32 °C)	
	8 hour	-	-	3,500 psi (24.1 MPa)	-	-	
	16 hour	-	3,300 psi (22.7 MPa)	5,600 psi (38.6 MPa)	120 psi (0.83 MI	960 psi (6.6 Pa) MPa)	
	1 day	-	4,500 psi (31.0 MPa)	5,700 psi (39.3 MPa)	1,300 ps <u>(</u> 9.0 MPa	· ·	
	3 day	100 psi (.69 <u>MPa)</u>	5,600 psi (38.6 MPa)	5,800 psi (40.0 MPa)	2,900 ps <u>(20.0 M</u>	Pa) (12.4 MPa)	
	7 day	2,200 psi (15.2 MPa)	6,500 psi (44.8 MPa)	5,800 psi (40.0 MPa)	4,600 ps <u>(31.7 M</u>		
	14 day	7,300 psi (50.3 MPa)	7,100 psi (48.9 MPa)	5,900 psi <u>(40.7 MPa)</u>	5,000 ps <u>(</u> 34.5 Mi	Pa) (26.2 MPa)	
	28 day	7,400 psi (51.0 MPa)	7,200 psi (49.6 MPa)	6,000 psi (41.4 MPa)	5,150 ps <u>(</u> 35.5 MI		
	Cured and test	ed at the temperatu	res indicated and 5	0 % R.H.			
Modulus of Elasticity in Compression	28 day	4.0x2	ar 1:1 10 ⁵ psi 8 MPa)	1.28x10 ⁵ psi 73 °F (22		(ASTM D-695) 73 °F (23 °C) 50 % R.H.	
Flexural Strength	14 day	3,900	:ar 1:1) psi MPa)	Neat 4,800 psi (33 MPa)		(ASTM D-790) 73 °F (23 °C) 50 % R.H.	
Modulus of Elasticity in Flexure			ar 1:1	Neat		(ASTM D-790)	
			LO ⁵ psi 8 MPa)	4.71x10 ⁵ ps (3,247 MPa)		73 °F (23 °C) 50 % R.H.	
Tensile Strength	14 day Mort 2,400		tar 1:1 Neat			(ASTM D-638) 73 °F (23 °C)	
			MPa)	2,000 psi (13.8 MPa)		50 % R.H	
Tensile Modulus of Elasticity	/		ar 1:1	Neat		(ASTM D-638)	
			LO ⁵ psi 16 MPa)	3.23x10 ⁵ psi (2,227 MPa)		73 °F (23 °C) 50 % R.H.	
Elongation at Break	14 day		ar 1:1	Neat		(ASTM D-638)	
		1.0 %	0	6.3 %		73 °F (23 °C) 50 % R.H.	
Shear Strength			ar 1:1	Neat		(ASTM D-732) 73 °F (23 °C)	
	Mortar 1:1	,	' MPa)	3,000 psi (21 MPa)		50 % R.H.	
Slant Shear Strength	2 day (dry cure) 14 day (moist cure)		2,600 psi (17.9 MPa) 1,700 psi (11.7 MPa)			(ASTM C-882) Hardened concrete	
					to	hardened concrete 73 °F (23 °C) 50 % R.H.	
Heat Deflection Temperature		day [fiber stress loading 102 °F (39 °C) (mortar 1:1) 6 psi (0.46 MPa)]			(ASTM D-648)		

Product Data Sheet Sikadur®-23 Lo-Mod Gel October 2018, Version 01.01 020204030010000066



BUILDING TRUST

Water Absorption		Neat	(ASTM D-570)
	7 day (2 hour Boil)	0.4 %	73 °F (23 °C)
			50 % R.H.

APPLICATION INFORMATION

Mixing Ratio

Component 'A':Component 'B' = 1:1 by volume

Pot Life

Approximately 45 minutes. (200 gram mass)

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, foreign particles, disintegrated materials.

Concrete - Should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by blastcleaning or equivalent mechanical means. **Steel** - Should be cleaned and prepared thoroughly by blastcleaning other equivalent mechanical means to a shiny metal finish.

MIXING

Pre-mix each component. Proportion equal quantities by volume of Component 'A' and Component 'B' into a clean pail. Mix thoroughly for 3 minutes with a Sika paddle on a low-speed (400–600 rpm) drill until uniform in color. Slowly add up to 1 part by loose volume of an oven-dried aggregate to 1 part of mixed Sikadur®-23 Lo-Mod Gel, and mix until uniform in consistency. Mix only that quantity that can be used within its pot life.

APPLICATION METHOD / TOOLS

As a mortar - Apply the Sikadur[®]-23 Lo-Mod Gel mortar using a trowel. Work material into surface. Fill void from deepest to shallowest area. Strike off level. As a pick-proof sealant - Use automated or manual method. Apply an appropriate size bead of material

around the area being sealed. Seal with neat Sikadur®-23 Lo-Mod Gel.

LIMITATIONS

- Do not thin, solvents will prevent proper cure.
- Use only oven-dried aggregate.
- Minimum substrate and ambient temperature 40 °F (4 °C).
- Porous substrates must be tested for moisture-vapor transmission prior to application.
- Material is a vapor barrier after cure.
- Minimum age of concrete before application is 21–28 days, depending on curing and drying conditions.
- Thickness in excess of 1/2 in. (13 mm) is not recommended in areas exposed to thermal change.
- Maximum thickness of 1.5 in./lift (38 mm/lift) for interi-

Product Data Sheet Sikadur®-23 Lo-Mod Gel October 2018, Version 01.01 020204030010000066



• Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure.



BUILDING TRUST

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.

LOCAL 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 CONSUMP-TION •FOR INDUSTRIAL USE ONLY •FOR PROFESSION-AL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL AP-PLY INCLUDING ANY WARRANTY OF MERCHANTABIL-**ITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA** SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTH-ERS. Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at

Product Data Sheet Sikadur®-23 Lo-Mod Gel October 2018, Version 01.01 020204030010000066 https://usa.sika.com/en/group/SikaCorp/termsandconditions.html or by calling 201-933-8300.



Sika Corporation

201 Polito Avenue Lyndhurst, NJ 07071 Phone: 800-933-7452 Fax: 201-933-6225



Product Data Sheet Sikadur®-23 Lo-Mod Gel October 2018, Version 01.01 020204030010000066

Sika Canada Inc.

601 Delmar Avenue Pointe Claire Quebec H9R 4A9 Phone: 514-697-2610 Fax: 514-694-2792

Sika Mexicana S.A. de C.V.

Carretera Libre Celaya Km. 8.5 Fracc. Industrial Balvanera Corregidora, Queretaro C.P. 76920 Phone: 52 442 2385800 Fax: 52 442 2250537

Sikadur-23Lo-ModGel-en-US-(10-2018)-1-1.pdf



BUILDING TRUST