Jika®

BUILDING TRUST

PRODUCT DATA SHEET

Sikadur[®]-33

High-modulus, high-strength, structural, very rapid-curing epoxy, smooth-paste adhesive

PRODUCT DESCRIPTION

Sikadur 33 is a 2-component, 100 % solids, moisturetolerant, high-modulus, high-strength, structural, smooth-paste epoxy adhesive. It conforms to the current ASTM C-881, Types I and II, Grade-3, Class B/C* and AASHTO M-235 specifications. *except for gel time

USES

Use to seal cracks and to secure injection ports in structural concrete and wood trusses prior to pressure-injection grouting.

CHARACTERISTICS / ADVANTAGES

- New smooth-paste consistency for vertical, horizontal and overhead crack sealing.
- Very rapid curing, even in thin film, for faster pressureinjection grouting.
- Injection may proceed as soon as 1 hour after application.

PRODUCT INFORMATION

Packaging	3 gallon (11 L) unit		
Color	Concrete gray		
Shelf Life	2 years 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	Smooth-paste adhesive		
Water Absorption	0.36 % (7 days, 24 hour immersion) (AST		

TECHNICAL INFORMATION

1 hour 2 hour 4 hour	30 psi (0.20 MPa) 1,800 psi (12,4 MPa)	73 °F (23 °C) 5,600 psi (38.6 MPa)	90 °F (32 °C) 4,600 psi (31.7 MPa)	
	1,800 psi		(31.7 MPa)	
4 hour		6,700 psi	5,600 psi	
4 nour	(12.4 MPa)	<u>(46.2 MPa)</u>	(38.6 MPa)	
	3,500 psi	7,800 psi	5,700 psi	
8 hour	(24.1 MPa) 6,300 psi (43.4 MPa)	<u>(53.7 MPa)</u> 8,200 psi (56.5 MPa)	<u>(39.3 MPa)</u> 6,600 psi (45 5 MPa)	
16 hour				
1 day	(47.5 MPa) 7,400 psi (51 MPa) 7,900 psi (54.4 MPa) 8,300 psi (57.2 MPa) 8,500 psi (58.6 MPa) 8,600 psi (59.3 MPa)	(58.6 MPa) 8,600 psi (59.3 MPa) 9,000 psi (62 MPa) 9,200 psi (63.4 MPa) 9,200 psi (63.4 MPa) 9,400 psi (64.8 MPa)	(48.9 MPa) 7,300 psi (50.3 MPa) 7,600 psi (52.4 MPa) 7,800 psi (53.7 MPa) 8,100 psi (55.8 MPa) 8,300 psi	
3 day				
7 day				
14 day				
28 day				
Material cured and tested at the temperatures indicated and 50 % R.H.				
9.6 X 10⁵ psi (6,600 MPa) (28 day) 695)				(ASTM D-
4,800 psi (3	33.1 MPa) (1 day)			(ASTM D-790) 73 °F (23 °C) 50 % R.H.
1.2 X 10 pis	(8,300 MPa) (1 day)		(ASTM D-790) 73 °F (23 °C)
				50 % R.H.
3.300 psi (2	(ASTM D-638)			
				73 °F (23 °C)
				50 % R.H. (ASTM D-638)
8.3 X 10⁵ p				
	73 °F (23 °C)			
				50 % R.H.
0.2 % (1 da	V)			(ASTM D-638)
,	,,			73 °F (23 °C)
				50 % R.H.
2,200 psi (2	L5.2 MPa) (1 dav)		(ASTM D-732)
, (-				73 °F (23 ℃)
				50 % R.H.
120°F (49°C) (1 day) [fiber stress loading = 264 psi (1.8 MPa)]			(ASTM D-648)	
	16 hour 1 day 3 day 7 day 14 day 28 day Material cured i 9.6 X 10 ⁵ ps 695) 4,800 psi (3 1.2 X 10 pis 3,300 psi (2 8.3 X 10 ⁵ ps 0.2 % (1 da 2,200 psi (1	(43.4 MPa) 16 hour 6,900 psi (47.5 MPa) 1 day 7,400 psi (51 MPa) 3 day 7,900 psi (54.4 MPa) 7 day 8,300 psi (57.2 MPa) 14 day 8,500 psi (57.2 MPa) 14 day 8,500 psi (58.6 MPa) 28 day 8,600 psi (59.3 MPa) Material cured and tested at the tempe 9.6 X 10 ⁵ psi (6,600 MPa) (2 695) 4,800 psi (33.1 MPa) (1 day) 1.2 X 10 pis (8,300 MPa) (1 day) 8.3 X 10 ⁵ psi (5,700 MPa) (1 day) 8.3 X 10 ⁵ psi (5,700 MPa) (1 day) 0.2 % (1 day) 2,200 psi (15.2 MPa) (1 day) 120°F (49°C) (1 day) [fiber si	(43.4 MPa) (56.5 MPa) 16 hour 6,900 psi 8,500 psi (47.5 MPa) (58.6 MPa) 1 day 7,400 psi 8,600 psi (51 MPa) (59.3 MPa) 3 day 7,900 psi 9,000 psi 7 day 8,300 psi 9,200 psi (57.2 MPa) (63.4 MPa) 14 day 8,500 psi 9,200 psi (58.6 MPa) (63.4 MPa) 14 day 8,500 psi 9,200 psi (58.6 MPa) (63.4 MPa) 28 day 8,600 psi 9,400 psi (59.3 MPa) (64.8 MPa) 0.6 X 10 ⁵ psi (6,600 MPa) (28 day) 695) 4,800 psi (33.1 MPa) (1 day) 1.2 X 10 pis (8,300 MPa) (1 day) 1.2 X 10 pis (8,300 MPa) (1 day) 3,300 psi (22.7 MPa) (1 day) 8.3 X 10 ⁵ psi (5,700 MPa) (1 day) 0.2 % (1 day) 0.2 % (1 day) 2,200 psi (15.2 MPa) (1 day) 120°F (49°C) (1 day) [fiber stress loading = 2 120°F (49°C) (1 day) [fiber stress loading = 2	(43.4 MPa) (56.5 MPa) (45.5 MPa) 16 hour 6,900 psi 8,500 psi 7,100 psi (47.5 MPa) (58.6 MPa) (48.9 MPa) 1 day 7,400 psi 8,600 psi 7,300 psi 3 day 7,900 psi 9,000 psi 7,600 psi (54.4 MPa) (62 MPa) (52.4 MPa) 7 day 8,300 psi 9,200 psi 7,800 psi (57.2 MPa) (63.4 MPa) (53.7 MPa) 14 day 8,500 psi 9,200 psi 8,100 psi (58.6 MPa) (63.4 MPa) (55.8 MPa) (57.2 MPa) 14 day 8,500 psi 9,200 psi 8,300 psi (59.3 MPa) (64.8 MPa) (57.2 MPa) Material cured and tested at the temperatures indicated and 50 % R.H. 9.6 X 10 ⁵ psi (6,600 MPa) (28 day) 695) 4,800 psi (33.1 MPa) (1 day) 3,300 psi (22.7 MPa) (1 day) 3,300 psi (22.7 MPa) (1 day) 2,200 psi (15.2 MPa) (1 day) 2,200 psi (15.2 MPa) (1 day) 2,200 psi (15.2 MPa) (1 day) 120°F (49°C) (1 day) [fiber stress loading = 264 psi (1.8 MPa)]

APPLICATION INFORMATION

Mixing Ratio	Component A : component B = 1 : 1 by volume	
Coverage	1 gal. yields 231 cu. in. of paste adhesive	
Pot Life	Approximately 15 minutes. (60 gram mass)	

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Tack-Free Time		
40 °F (4 °C)*	73 °F (23 °C)*	90 °F (32 °C)*
1.5–1.75 h	25–30 min	20–25 min

* Material cured and tested at the temperatures indicated.

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. 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.

MIXING

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

APPLICATION METHOD / TOOLS

To seal injection ports and 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. Use Sikadur® 35, Hi-Mod LV, or Sikadur® 52 for the low viscosity injection adhesive. Consult technical data sheets on these products for more information. Also, contact Technical Service (1.800.933. SIKA) for additional information on pressure injection grouting.

Removal

Uncured material can be removed with approved solvent (Xylene, M.E.K., Acetone, etc.). Strictly follow solvent manufacturer's warnings and instructions for use. Cured material can only be removed mechanically.

LIMITATIONS

- Minimum substrate and ambient temperature 40 °F (4 °C).
- Do not thin. Addition of solvents will prevent proper cure.
- Material is a vapor barrier after cure.
- 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.

BASIS OF PRODUCT DATA

Product Data Sheet Sikadur®-33 August 2018, Version 01.01 020204030010000006 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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Sika Corporation

201 Polito Avenue Lyndhurst, NJ 07071 Phone: +1-800-933-7452 Fax: +1-201-933-6225 usa.sika.com



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Carretera Libre Celaya Km. 8.5

Corregidora, Queretaro C.P. 76920 Phone: 52 442 2385800 Fax: 52 442 2250537

Sika Mexicana S.A. de C.V.

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