

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, moisture-tolerant, 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 pressure-injection 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)	(ASTM D-570)

TECHNICAL INFORMATION

Compressive Strength	40 °F (4 °C)	73 °F (23 °C)	90 °F (32 °C)	(ASTM D-695)
	1 hour	30 psi (0.20 MPa)	5,600 psi (38.6 MPa)	
2 hour	1,800 psi (12.4 MPa)	6,700 psi (46.2 MPa)	5,600 psi (38.6 MPa)	
4 hour	3,500 psi (24.1 MPa)	7,800 psi (53.7 MPa)	5,700 psi (39.3 MPa)	
8 hour	6,300 psi (43.4 MPa)	8,200 psi (56.5 MPa)	6,600 psi (45.5 MPa)	
16 hour	6,900 psi (47.5 MPa)	8,500 psi (58.6 MPa)	7,100 psi (48.9 MPa)	
1 day	7,400 psi (51 MPa)	8,600 psi (59.3 MPa)	7,300 psi (50.3 MPa)	
3 day	7,900 psi (54.4 MPa)	9,000 psi (62 MPa)	7,600 psi (52.4 MPa)	
7 day	8,300 psi (57.2 MPa)	9,200 psi (63.4 MPa)	7,800 psi (53.7 MPa)	
14 day	8,500 psi (58.6 MPa)	9,200 psi (63.4 MPa)	8,100 psi (55.8 MPa)	
28 day	8,600 psi (59.3 MPa)	9,400 psi (64.8 MPa)	8,300 psi (57.2 MPa)	

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

Modulus of Elasticity in Compression	9.6 X 10 ⁵ psi (6,600 MPa) (28 day)	(ASTM D-695)
Flexural Strength	4,800 psi (33.1 MPa) (1 day)	(ASTM D-790) 73 °F (23 °C) 50 % R.H.
Modulus of Elasticity in Flexure	1.2 X 10 ⁵ psi (8,300 MPa) (1 day)	(ASTM D-790) 73 °F (23 °C) 50 % R.H.
Tensile Strength	3,300 psi (22.7 MPa) (1 day)	(ASTM D-638) 73 °F (23 °C) 50 % R.H.
Tensile Modulus of Elasticity	8.3 X 10 ⁵ psi (5,700 MPa) (1 day)	(ASTM D-638) 73 °F (23 °C) 50 % R.H.
Elongation at Break	0.2 % (1 day)	(ASTM D-638) 73 °F (23 °C) 50 % R.H.
Shear Strength	2,200 psi (15.2 MPa) (1 day)	(ASTM D-732) 73 °F (23 °C) 50 % R.H.
Heat Deflection Temperature	120°F (49°C) (1 day) [fiber stress loading = 264 psi (1.8 MPa)]	(ASTM D-648)

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)

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

BUILDING TRUST



Cure Time

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 be 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

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 1-800-933-7452. 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 APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY 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 OTHERS.

Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling 1-800-933-7452.

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

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



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

Sikadur-33-en-US-(08-2018)-1-1.pdf

