

# PRODUCT DATA SHEET

## Sikadur<sup>®</sup>-51 NS

Flexible epoxy control-joint sealer/adhesive

### PRODUCT DESCRIPTION

Sikadur<sup>®</sup>-51 NS is a 2-component, non-sagging, solvent-free, moisture-tolerant, flexible epoxy control joint sealer and adhesive.

### USES

Sikadur<sup>®</sup>-51 NS may only be used by experienced professionals.

- Use to fill vertical and overhead non-moving, saw-cut construction control joints and cracks
- Use as a flexible adhesive

### CHARACTERISTICS / ADVANTAGES

- 2 to 1 ratio ensures easy mixing, easy handling
- An adhesive with excellent flexibility
- Excellent durability
- Conforms to ACI 302.1R (4.10-Joint Materials)
- Shock-absorbent cure
- Prevents deterioration of control-joint edges
- Use as a security sealant

### PRODUCT INFORMATION

<b>Packaging</b>	3 gal. (11 L) units
<b>Color</b>	Concrete gray
<b>Shelf Life</b>	24 months in original, unopened containers
<b>Storage Conditions</b>	Store dry at 40–95 °F (4–35 °C). Condition material to 65–85 ° F (18–29 °C) before using.
<b>Viscosity</b>	<b>Comp. 'A'</b> 300,000-350,000 cps. <b>Comp. 'B'</b> 29,000-31,000 cps. <b>Mixed</b> Non-sag paste

### TECHNICAL INFORMATION

<b>Shore A Hardness</b>	75–80 (28 days)	(ASTM D-2240) 73 °F (23 °C) 50 % R.H.
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<b>Shore D Hardness</b>	30–40 (28 days)	(ASTM D-2240) 73 °F (23 °C) 50 % R.H.
<b>Tensile Strength</b>	650 psi (3.9 MPa) (14 days)	(ASTM D-638) 73 °F (23 °C) 50 % R.H.
	Strength at % elongation	
	2.5%      50 psi (0.35 MPa)	
	5%        90 psi (0.62 MPa)	
	10%      160 psi (1.1 MPa)	
<b>Tensile Modulus of Elasticity</b>	1,800 psi (12.4 MPa) (14 days)	(ASTM D-638) 73 °F (23 °C) 50 % R.H.
<b>Elongation at Break</b>	80 % (14 days)	(ASTM D-638) 73 °F (23 °C) 50 % R.H.

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	Component 'A': Component 'B' = 2:1 by volume.
<b>Coverage</b>	1 gal. will yield 231 in <sup>3</sup> or will fill 102 ft. of 1/8 in. wide x 1.5 in. deep joint
<b>Pot Life</b>	1–1.5 h
<b>Cure Time</b>	<b>Tack-Free Time:</b> 7–8 h

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

Substrate 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, etc., by mechanical means (i.e. sandblasting, high pressure water blasting).

### MIXING

Pre-mix each component. It is critical to accurately proportion 2 parts Component 'A' and 1 part Component 'B' by volume into a clean pail or appropriately sized mixing container. Mix thoroughly for 3 minutes with a Sika Paddle on a low-speed (400–600 rpm) drill until uniform in color. Mix only that quantity which can be used within pot life.

### APPLICATION METHOD / TOOLS

For vertical or overhead applications, gun Sikadur®-51 NS into construction/control joints and cracks with caulking gun, pressure extruder, or other suitable methods. Be sure to maintain steady pressure and steady flow of material, filling entire joint in a single application. Take care to eliminate overlapping as this may cause bubbling within the material. For use as a flexible adhesive, consult Sika Technical Service at 800-933-SIKA.

## LIMITATIONS

- Do not thin Sikadur®-51 NS. Addition of solvents may prevent proper cure.
- Substrate temperature should be 40 °F (4 °C) minimum and rising.
- For best results, materials should be maintained between 65–85 °F (18–29 °C) during application.
- Do not apply through standing water.
- Minimum age of concrete is 28 days.
- Materials are vapor barriers after cure.
- Concrete or masonry must be tested for water-vapor transmission prior to application.
- Not designed for use under constant immersion in water or other liquids.
- Do not use in expansion (moving) joints.
- For application in non-moving joints only.
- The ultimate performance of Sikadur®-51 NS depends upon many factors, [i.e., proper joint design, thermally stable areas, (concrete slab), etc.].
- For applications other than sealing of control or construction joints, consult Sika Technical Service at 800-933-SIKA.
- Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure.

## 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

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](http://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.

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