

# Sikadur® 51 NS

## Flexible epoxy control-joint sealer/adhesive

Construction

<b>Description</b>	Sikadur® 51 NS is a 2-component, non-sagging, solvent-free, moisture-tolerant, flexible epoxy control joint sealer and adhesive.
<b>Where to Use</b>	<ul style="list-style-type: none"> <li>■ Use to fill vertical and overhead non-moving, saw-cut construction control joints and cracks.</li> <li>■ Use as a flexible adhesive.</li> </ul>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>■ 2 to 1 ratio ensures easy mixing, easy handling.</li> <li>■ An adhesive with excellent flexibility.</li> <li>■ Excellent durability.</li> <li>■ Conforms to ACI 302.1R (4.10-Joint Materials).</li> <li>■ Shock-absorbent cure.</li> <li>■ Prevents deterioration of control-joint edges.</li> <li>■ Use as a security sealant.</li> </ul>
<b>Coverage</b>	1 gal. will yield 231 cu. in. or will fill 102 ft. of 1/8 in. wide x 1.5 in. deep joint.
<b>Packaging</b>	3 gallon units.

### Typical Data *Material and curing conditions @ 73°F (23°C) and 50% R.H.*

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

<b>Shelf Life</b>	2 years 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>Color</b>	Concrete gray	
<b>Mixing Ratio</b>	Component 'A': Component 'B' = 2:1 by volume.	
<b>Viscosity</b>	Comp. 'A'	300,000-350,000 cps
	Comp. 'B'	29,000-31,000 cps
	Mixed	Non-sag paste
<b>Pot Life</b>	1-1.5 hours	
<b>Tack-Free Time</b>	7-8 hours.	
<b>Tensile Properties (ASTM D-638)</b>		
<b>14 days</b>	Tensile Strength	650 psi (3.9 MPa)
	Elongation at Break	80%
	Modulus of Elasticity	1,800 psi (12.4 MPa)
	Tensile stress at % elongation	2.5% 50 psi (0.35 MPa)
		5% 90 psi (0.62 MPa)
		10% 160 psi (1.10 MPa)
<b>Tear Resistance (ASTM D-624)</b>	<b>14 days</b>	110 lb./in. (19.4 N/mm)
<b>Hardness (ASTM D-2240)</b>	<b>28 days</b> (Shore A)	75-80 (Shore D) 30-40



PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT [HTTP://USA.SIKA.COM/](http://usa.sika.com/) OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA 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 DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

## How to Use

<b>Surface Preparation</b>	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).
<b>Mixing</b>	<b>Pre-mix each component.</b> 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.
<b>Application</b>	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.
<b>Limitations</b>	<ul style="list-style-type: none"> <li>■ Do not thin Sikadur® 51 NS. Addition of solvents may prevent proper cure.</li> <li>■ Substrate temperature should be 40°F (4°C) minimum and rising.</li> <li>■ For best results, materials should be maintained between 65°-85°F (18°-29°C) during application.</li> <li>■ Do not apply through standing water.</li> <li>■ Minimum age of concrete is 28 days.</li> <li>■ Materials are vapor barriers after cure.</li> <li>■ Concrete or masonry must be tested for water-vapor transmission prior to application.</li> <li>■ Not designed for use under constant immersion in water or other liquids.</li> <li>■ Do not use in expansion (moving) joints.</li> <li>■ For application in non-moving joints only.</li> <li>■ The ultimate performance of Sikadur® 51 NS depends upon many factors, [i.e., proper joint design, thermally stable areas, (concrete slab), etc.].</li> <li>■ For applications other than sealing of control or construction joints, consult Sika Technical Service at 800-933-SIKA.</li> <li>■ Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure.</li> </ul>

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KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY.

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at <http://usa.sika.com/> or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

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