

Sikadur 51 SL

Flexible epoxy control joint resin

Construction

Description	Sikadur 51 SL is a 2-component, self-leveling 100% solids, flexible, control joint resin sealer and adhesive.
Where to Use	<ul style="list-style-type: none"> ■ Use to fill horizontal, non-moving, saw cut construction control joints and cracks. ■ Use as a flexible adhesive.
Advantages	<ul style="list-style-type: none"> ■ Remains flexible. Does not age-harden. ■ Prevents deterioration of joint edges. ■ Excellent adhesive properties. ■ Conforms to ACI 302.1R (4.10-Joint Materials). ■ Ideal for use with plural injection type systems. ■ Can be used on grades up to 15%. ■ Shock absorbent and durable. Withstands wheel traffic and heavy loads. ■ Use as a security sealant.
Coverage	1 gal. will yield 231 cu. in. or will fill 100 lin. ft. of 1/8 in. x 1.5 in. deep joint.
Packaging	4 gallon units
How to Use	
Surface Preparation	Substrate must be clean and sound. It may be dry or damp, but free of standing water. Remove dust, laitance, grease, curing compounds, bond inhibiting impregnations, waxes and any other contaminants. Concrete - Should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by blast cleaning or equivalent mechanical means.
Mixing	Pre-mix each component. Proportion equal parts by volume of Component 'A' and Component 'B' into clean pail. Mix thoroughly for 3 minutes with a low-speed (400-600 rpm) drill using a Sika paddle until uniform in color. Mix only that quantity that can be applied within its pot life.

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.

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.	
Color	Concrete Gray	
Mixing Ratio	Component 'A': Component 'B' = 1:1 by volume.	
Viscosity	Comp. 'A'	5,800 cps (5,800)
	Comp. 'B'	7,900 cps (7,900)
	Mixed	7,000 cps (7,000)
Pot Life	20-25 minutes, 1 gallon (3.8 liter) 40 minutes, 8 fl. oz. (250 ml)	
Tack-Free Time	7-8 hours	
Tensile Properties (ASTM D-638)		
14 days	Tensile Strength	570 psi (3.9 MPa)
	Elongation at Break	90%
	Modulus of Elasticity	2,800 psi (19.3 MPa)
	Tensile stress at % elongation	2.5% 70 psi (0.48 MPa)
		5% 110 psi (0.75 MPa)
		10% 160 psi (1.10 MPa)
Tear Resistance (ASTM D-624) 14 days	170 lb./in. (29.8 N/mm)	
Hardness (ASTM D-2240) 28 days	Hardness (Shore D)	50-55
Water Absorption (ASTM D-570) 7 days	(24 hour immersion) 1.86%	



Application	Pour the mixed Sikadur 51 SL into the prepared joint or use low-pressure extrusion equipment. Allow the material to flow slowly, settle and self-level filling entire depth. Strike-off level and remove any excess material where required, before it hardens.
Limitations	<ul style="list-style-type: none"> ■ Do not thin. 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°-75°F (18°-24°C) during application. ■ Do not apply through standing water. ■ Minimum age of concrete is 28 days. ■ Materials are a vapor barrier 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 SL depends upon many factors, [i.e., proper joint design, thermally stable areas (concrete slab), etc.]. ■ Sikadur 51 SL should be installed full depth when sealing construction/control joints. ■ Material should not be applied earlier than 28 days after new concrete is placed. A 60-90 day cure is recommended. ■ Sikadur 51 SL may change color over time, especially when exposed to ultraviolet rays, artificial heaters or intense lighting. ■ For applications other than sealing of joints, consult Sika Technical Service prior to use. ■ Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure.
Caution	<p>Component 'A' - Sensitizer; Irritant - Contains epoxy resin, nonyl phenol. Eye irritant. May cause skin/respiratory irritation. Prolonged and/or repeated contact with skin may cause allergic reaction/sensitization. Chronic overexposure to nonyl phenol may cause liver injuries. Harmful if swallowed.</p> <p>Component 'B' - Corrosive; Sensitizer; Irritant - Contains amines, nonyl phenol. Contact with eyes and skin may cause severe burns. May cause cornea damage and blindness. May cause severe skin irritation. Prolonged and/or repeated contact with skin may cause allergic reaction/sensitization. Chronic overexposure to nonyl phenol may cause liver injuries. May cause respiratory irritation. Harmful if aspirated into lungs or swallowed.</p> <p>Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.</p>
First Aid	<p>Eyes: Hold eyelids apart and flush thoroughly with water for at least 15 minutes. Skin: Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. Inhalation: Remove to fresh air. Ingestion: Do not induce vomiting. Contact a physician.</p> <p>In all cases, contact a physician immediately if symptoms persist.</p>
Handling and Storage	Avoid direct contact with eyes and skin. Wear chemical resistant gloves/goggles/clothing. Avoid breathing vapors. Use with adequate general and local ventilation. In the absence of adequate ventilation, use a properly fitted NIOSH respirator. Wash thoroughly after handling product. Remove contaminated clothing and launder before reuse. Store product in closed container in cool, dry, well ventilated place.
Clean Up	Avoid contact. Uncured material can be removed with soap and water or solvent. Follow solvent manufacturer's instructions for use and warnings. Cured product can only be removed mechanically. Consult a physician if material cures on skin. Wear chemical resistant clothing/gloves/goggles. In the absence of adequate ventilation, use a properly fitted NIOSH respirator. In case of spill, ventilate area. Contain spill, collect with absorbent material and transfer to sealed containers. Dispose of in accordance with current, applicable local, state and federal regulations.

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

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