## Sikadur<sup>®</sup> 301

## High-modulus, high-strength, impregnating resin

Description	Sikadur <sup>®</sup> 301 is a two-component 100% solids, moisture-tolerant, high strength, high modulus structural epoxy adhesive.			
Where to Use	For use as a priming sealer ing System fabrics.	For use as a priming sealer and/or an encapsulating resin with the SikaWrap® Structural Strengthen- ing System fabrics.		
Advantages	<ul> <li>Medium pot life.</li> <li>Easy to mix.</li> <li>Tolerant of moisture before, during and after cure.</li> <li>High strength, high modulus adhesive.</li> <li>Excellent adhesion to concrete, masonry, metals, wood and most structural materials.</li> <li>Fully compatible and developed specifically for the SikaWrap<sup>®</sup> Systems.</li> <li>High temperature resistance.</li> <li>High abrasion and shock resistance.</li> <li>Solvent-free, VOC compliant.</li> </ul>			
Coverage	As a sealer: Approx. 75 ft²/gal. (1.84 m²/liter). As an impregnating resin: Approx. 50 ft²/gal. (1.23 m² liter).			
Packaging	4 gallon unit (15.14 liters).			
	RESULTS MAY DIFFER BASED UF	and curing conditions @ 73°F (23°C) and 50% R.H.) PON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, ETHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. 2 years in original, unopened container.		
	Storage Conditions	Store dry at 40°-95°F (4°-35°C). Condition material to 65°- 75°F (18°-24°C) before using.		
	Color	Light gray		
	Mixing Ratio	Component 'A' : Component 'B' = 3 : 1 by volume		
	Viscosity (mixed)	Approx. 2,700 cps		
	Pot Life	Approx. 40 minutes (1 gallon volume)		
	Contract Times			

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Color	Light gray		
Mixing Ratio	Component 'A'	Compone	ent 'B' = 3 : 1 by volume
Viscosity (mixed)		Approx. 2	2,700 cps
Pot Life		Approx. 4	10 minutes (1 gallon volume)
Contact Time		Approx. 9	90 minutes
Heat Deflection Temperature (A	ASTM D-648) 7 d	ay	117°F (47°C)
Glass Transition Temperature	(Tg) 7 day		120°F (49°C)
Mechanical Properties			
Tensile Properties (ASTM D-63	8)		
7 day	Tensile Strength		8,000 psi (52.0 MPa)
	Modulus of Elas		290 ksi (2,000 MPa)
	Elongation at bi	reak	3.5%
Flexural Properties (ASTM D-7)	•		
7 day	Flexural Streng		13,000 psi (90.0 MPa)
	Tangent Modulu	IS	500 ksi (3,448 MPa)
	Strain at Yield		3.0%
Compressive Properties (AST			
	Compressive S	•	
	1 day		(27.6 MPa)
	3 day		si (82.1 MPa)
	7 day		si (96.0 MPa)
	Compressive M	odulus	
		250 ksi (*	1,725 MPa)



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How to Use Surface Preparation	The concrete surface should be prepared to a minimum concrete surface profile (CSP) 3 as defined by the ICRI-surface-profile chips. Localized out-of-plane variations, including form lines, should no
	exceed 1/32 in. (1 mm). Substrate must be clean, sound, and free of surface moisture. Remove dust, laitance, grease, oils curing compounds, waxes, impregnations, foreign particles, coatings and disintegrated materials by mechanical means (i.e. sandblasting). For best results, substrate should be dry. However, a saturated surface dry condition is acceptable.
Mixing	Pre-mix 'A' component, ('B' component does not require mixing). Mix entire unit, do not batch. Pou contents of Part 'B' into Part 'A'. Mix thoroughly for 5 minutes using a paddle style mixer on low speed (400-600 rpm) rotary drill until uniformly blended.
Application	As a sealer: Apply mixed Sikadur <sup>®</sup> 301 epoxy to a properly prepared substrate using a brush o roller. Sikadur <sup>®</sup> 301 should be supplied at a sufficient rate to fully saturate the substrate. Coverage rates are based on a substrate with normal porosity.
	As an impregnating resin: Saturate SikaWrap <sup>®</sup> fabrics until fibers are completely wet-out. Fo vertical and overhead installations, Sikadur <sup>®</sup> 330 may be used first to prime/tack the substrate prio to installing the fabric.
	Sikadur <sup>®</sup> 301 can be applied in either Dry Lay-Up or Wet Lay-Up fabric installation procedures Consult the SikaWrap <sup>®</sup> fabric technical data sheet for more information. If used as an impregnating resin in the Wet Lay-Up procedure, Sikadur <sup>®</sup> 301 should be manually applied onto both sides of the fabric using a brush or roller. After saturating, excess resin should be removed from the wet ou fabric using a squeegee.
	Due to the mixed viscosity of Sikadur <sup>®</sup> 301, an automated fabric-saturating device should not be used. If automated fabric-saturating device is intended for use, consult the technica data sheets for appropriate impregnating resins (i.e. Sikadur <sup>®</sup> 300 or Sikadur <sup>®</sup> Hex 300).
Limitations	<ul> <li>Minimum substrate and ambient temperature 40°F (4°C). Maximum substrate and ambient temperature 95°F (35°C).</li> <li>Do not thin with solvents.</li> <li>Material is a vapor barrier after cure.</li> <li>Minimum age of concrete must be 21-28 days depending on curing and drying conditions.</li> <li>At low temperatures and/or high relative humidity, a slight oily residue (blush) may form on the surface of the cured Sikadur® 301 epoxy. If an additional layer of fabric or a coating is to be applied onto the cured epoxy, this residue must first be removed to ensure adequate bond. The residue can be removed with either a solvent wipe or with water and detergent. In both cases, the surface should be wiped dry prior to application of the next layer of fabric or coating.</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.

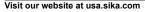
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