

PRODUCT DATA SHEET

Sikadur[®]-300

High-modulus, high-strength, impregnating resin

PRODUCT DESCRIPTION

Sikadur[®]-300 is a two-component 100% solids, moisture-tolerant, high strength, high modulus epoxy.

USES

Sikadur[®]-300 may only be used by experienced professionals.

- For use as an impregnating resin with SikaWrap[®] Structural Strengthening System.
- Sikadur[®] 300 is used as a seal coat and impregnating resin for horizontal and vertical applications.

CHARACTERISTICS / ADVANTAGES

- Long pot life.
- Long open time.
- Easy to mix.
- Tolerant of moisture before, during and after cure.
- High strength, high modulus adhesive.
- Excellent adhesion to concrete, masonry metals, wood and most structural materials.
- Fully compatible and developed specifically for the SikaWrap[®] System.
- High temperature resistance.
- High abrasion and shock resistance.
- Solvent-free, VOC compliant.

PRODUCT INFORMATION

Packaging	4 gallon units.
Color	Clear, amber.
Shelf Life	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.
Viscosity	approx. 500 cps Reactivity: 6-7 hours (time to reach 10,000 cps)
	Tack-Free (30 mils) ByK Drying Recorder 14-16 hours

TECHNICAL INFORMATION

Flexural Strength	11,500 psi (79 MPa)	(ASTM D-790) 14 day cure @73°F (23°C) 50% RH
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Modulus of Elasticity in Flexure	5 x 105 psi (3,450 MPa)	(ASTM D-790) 14 day cure @73°F (23°C) 50% RH
Tensile Strength	8,000 psi (55 MPa)	(ASTM D-638) 14 day cure @73°F (23°C) 50% RH
Tensile Modulus of Elasticity	2.5 x 105 psi (1,724 MPa)	(ASTM D-638) 14 day cure @73°F (23°C) 50% RH
Elongation at Break	3%	(ASTM D-638) 14 day cure @73°F (23°C) 50% RH
Service Temperature	-40°F to 140°F (-40°C to 60°C)	

APPLICATION INFORMATION

Mixing Ratio Mix entire unit, do not batch.

Coverage As a sealer: 100 ft.²/gal.
As an impregnating resin:
120 ft.²/gal. - 9 oz. per sq.yd. fabrics
60 ft.²/gal. - 18 oz. per sq.yd. fabrics
30 ft.²/gal. - 37 oz. per sq.yd. fabrics

APPLICATION INSTRUCTIONS

SUBSTRATE 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 not 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 each component. Mix entire unit, do not batch. Pour contents of part B to part A. Mix thoroughly for 5 minutes on low using a paddle style mixer on low speed (400-600 rpm) drill until uniformly blended.

APPLICATION METHOD / TOOLS

As a sealer: Apply mixed Sikadur® 300 epoxy to a properly prepared substrate using a brush, roller or airless sprayer. Sikadur® 300 should be applied at a sufficient rate to fully saturate the substrate without producing a surface film. Coverage rates are based on a substrate with normal porosity.

As an impregnating resin: As an impregnating resin for

vertical and horizontal applications, use Sikadur® 300. Resins may be applied to fabric by either manual or automatic means. For further information, consult installation guidelines.

LIMITATIONS

- Minimum substrate and ambient temperature 50°F (10°C).
- Do not thin with solvents.
- Material is a vapor barrier after cure.
- Minimum age of concrete must be 21-28 days depending on curing and drying conditions.
- 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 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.**

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