



PRODUCT DATA SHEET

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COMPOSITE REINFORCING

Sikadur®-300

HIGH MODULUS, HIGH STRENGTH, IMPREGNATING RESIN FOR THE SIKAWRAP® SYSTEM

Description	Sikadur®-300 is a two-component 100% solids, moisture-tolerant, high strength, high modulus epoxy.
Where to Use	<ul style="list-style-type: none"> 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.
Advantages	<ul style="list-style-type: none"> Long pot life and 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 creep resistance under permanent load. High abrasion and shock resistance. Solvent-free, VOC-compliant. High temperature resistance.

Technical Data

Packaging	15.14L unit (4 US gal.)
Colour	Clear, amber
Yield	<p>As a primer: 3 - 5 m²/L (122 - 203 ft²/US gal.), depending on substrate porosity.</p> <p>As an impregnating resin: For SikaWrap® Hex-100 G and SikaWrap® Hex-103 C : 1.5 m²/L (61 ft²/US gal.) For SikaWrap®-900 C : 1 m²/L (40.7 ft²/US gal.) For SikaWrap®-1400 C : 0.78 m²/L (31.7 ft²/US gal.)</p>
Shelf Life	2 years in original, unopened packaging. Store dry between 5 and 32 °C (41 and 89 °F). Condition product between 18 and 24 °C (65 and 75 °F) before using.
Mix Ratio	<p>By volume 2.38:1</p> <p>By weight 2.9:1</p>

Properties at 23 °C (73 °F) and 50 % R.H.

Viscosity	Approx. 500 cps
Tack Free	14 - 16 hrs (30 mils Byk Drying Recorder)
Tg	85 °C (185 °F) [2 hr cure 80 °C (176 °F) + 3 hr cure 125 °C (257 °F)]
HDT	47 °C (117 °F)
Reactivity	6 - 7 hrs (to reach 10 000 cps)
Service Temperature Range	-40 to 60 °C (-40 to 140 °F)
Tensile Strength ASTM D638	55 MPa (7980 psi)
Tensile Modulus ASTM D638	1724 MPa (25 x 10 ⁴ psi)
Elongation at Break	3%
Flexural Strength ASTM D79	79 MPa (11 463 psi)
Flexural Modulus ASTM D790	3.45 GPa (50.1 x 10 ⁴ psi)

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

HOW TO USE

Surface Preparation Substrate must be clean, sound, and free of surface moisture. Remove dust, laitance, grease, oils, curing compound, waxes, impregnations, foreign particles, coatings and disintegrated materials or any other bond inhibiting materials from the surface. For best results, substrate should be dry.

The concrete surface should be prepared to a minimum concrete surface profile, CSP 3, as defined by the ICRI-surface-profile chips.

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

Application	<p>As a primer: Apply mixed Sikadur®-300 epoxy at a rate of 3 - 5 m²/L (122 - 203 ft²/US gal.) to properly prepared substrate using a brush, roller or airless sprayer.</p> <p>As an impregnating resin: Use Sikadur®-300 for vertical and horizontal applications. Resins may be applied to fabric by either manual or mechanical means.</p>
Clean Up	Uncured material can be removed with Sika® Epoxy Cleaner. Cured material can only be removed mechanically.
Limitations	<ul style="list-style-type: none"> ▪ Minimum and maximum substrate and ambient temperature: 10 to 38 °C (50 to 100 °F). ▪ Do not thin with solvents. ▪ Material is a vapour barrier after cure. ▪ Minimum age of concrete must be between 21 and 28 days depending on curing and drying conditions.
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY

The Information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions, within their shelflife. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca

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