



PRODUCT DATA SHEET

Edition 04.2019/v1 CSC Master Format™ 03 25 00 COMPOSITE REINFORCING

Sikadur®-330

IMPREGNATION RESIN FOR FABRIC REINFORCEMENT

Description	Sikadur®-330 is a two-component 100 % solids, moisture-tolerant, high strength, high modulus structural thixotropic				
	epoxy resin, ideal for vertical and overhead application.				
Where to Use	 For use as an impregnating resin with SikaWrap® Hex-230 C and SikaWrap®-430 G Structural Strengthening System. May be used with SikaWrap® Hex-103 C and SikaWrap® Hex-100 G and other fabrics as a primer, to improve tack for vertical and overhead applications. 				
Advantages	Long pot life.				
	Long open time.				
	■ Easy to mix.				
	 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 creep resistance under pe 	rmanent load.			
	High abrasion and shock resistance.				
	■ Solvent-free, VOC compliant.				
	 Complies with NSF-ANSI standard 61 for potable water contact (available by special order only). 				
	Technical Data				
	Packaging Colour	5 kg (11 lb) unit [3.78 L (1 US gal.)]			
	Colour	Comp. A White Comp. B Grey			
	Yield				
	First coat Inter-layer coat	0.7 - 1.2 kg/m² (0.14 - 0.24 lb/ft²) 0.5 kg/m² (0.10 lb/ft²)			
	Final coat	0.5 kg/m² (0.10 lb/ft²)			
	Shelf Life	2 years in original, unopened packaging. Store dry between 5 and 25 °C (41 and 77 °F). Condition produc between 18 and 24 °C (65 and 75 °F) before using.			
	Mix Ratio A:B = 4:1 by weight. Exact mixing ratio to be safeguarded by using scales.				
	Properties at 23 °C (73 °F) and 50 % R.H.				
	Density (comp. A + B mixed) Viscosity	1.31 kg/L (10.9 lb/US gal.) Non-sag paste			
	Pot Life, 5 kg (11 lb)	10 °C (50 °F) 1 hr 30 min			
		35 °C (95 °F) 30 min			
	Open Time Tensile Strength	35 °C (95 °F) 30 min 30 MPa (4353 psi)			
	Elongation at Break	1.5 %			
	Flexural E-Modulus Heat Distortion Resistance ASTM D648	3.8 GPa (55.1 x 10 ⁴ psi) Curing HDT			
	neat distortion resistance ASTW D048	Tays at 10 °C (50 °F) 36 °C (97 °F) 7 days at 23 °C (73 °F) 47 °C (116 °F) 7 days at 35 °C (95 °F) 53 °C (127 °F) 7 days at 10 °C (50 °F) 9 lus 7 days at 23 °C (73 °F) 43 °C (109 °F)			
		7 days at 10 °C (50 °F) 36 °C (97 °F) 7 days at 23 °C (73 °F) 47 °C (116 °F) 7 days at 35 °C (95 °F) 53 °C (127 °F)			
		7 days at 10 °C (50 °F) plus 7 days at 23 °C (73 °F) 43 °C (109 °F)			
	VOC content	13 g/L			
	Product properties are typically averages, obtain preparation, application, curing and test methods	ned under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment,			
HOW TO USE	preparation, application, caring and test methods				
Surface	Prepare the surface by sandblasting	ng or grinding (CSP 3 - 4). Remove any dust or loose particles by means of an industria			
Preparation	vacuum cleaner. The surface mus	t be clean, free from grease and oil and should be dry with the maximum substrate			
•	moisture content < 4 % by weight.				
	The surface to be bonded must be level, with no irregularities or protrusion > 0.5 mm (20 mils). Larger deviations must				
	be levelled with Sikadur®-30, extended with oven-dried quartz sand (mix ratio 1:1 parts by volume).				
		he substrate being strengthened must be at least 1.5 MPa (218 psi). All corners of th			
	structure must be rounded to a ra				
Mixing	Pre-mix each component. Mix entire unit, do not batch. Add contents of component B to component A. Mix thoroughly				
Ü	for three (3) minutes at low speed (400 - 600 rpm) with a drill a fitted with a mixing paddle (<i>Jiffy</i> or <i>Exomixer</i> ® type) unti				
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speed to keep air entrainment to a minimum.

coloured streaks disappear. Pour the mixed epoxy into a clean container and mix again for approx. one (1) minute at low

Note: Pot life starts with the mixing of both components (resin and hardener). At low ambient temperature it will be longer, at elevated temperatures it will be shorter. The larger the quantity of mixed material, the shorter the pot life.

Application

When installing the SikaWrap® Hex-230 C or SikaWrap®-430 G in the dry lay-up process, cut the fabric to the desired size. Then apply the mixed Sikadur®-330 to the prepared substrate at a rate of 0.7 - 1.2 kg/m² (0.14 - 0.24 lb/ft²), depending on the surface profile, using a trowel or brush. Carefully place the fabric into the resin with gloved hands and smooth out. Work out any irregularities or air pockets with a plastic laminating roller. Let the resin squeeze out between the rovings of the fabric.

If more than one layer of fabric is required, apply an additional coat of Sikadur®-330 at approx. 0.5 kg/m² (0.10 lb/ft²) within 60 minutes at 20 °C (68 °F), and repeat fabric lay-up as explained above.

If it is not possible to apply within 60 minutes, refer to the waiting times indicated in the table below. Therefore, before laying up another layer of fabric or a protective coating, any residue or tackiness must be removed. This can be achieved by washing the surface with water and detergent using a sponge to scrub the surface. The surface should then be rinced and wiped dry prior to application of the next layer or coating (see below for waiting time). Alternatively, use the SikaWrap® Peel ply to improve surface profile (see the Product Data Sheet for more information). Apply a final seal coat of Sikadur®-330 at approx. 0.5 kg/m² (0.10 lb/ft²) over the final layer of fabric.

To prevent exposure of the strengthening fabric to direct sunlight, apply a top coat of Sikagard®-550 W Elastic, Sikagard® Color A-50 Lo-VOC or other acceptable coating. To adhere cementitious top coat systems to the cured epoxy resin, apply an additional layer of epoxy resin at 0.4 - 0.5 mm (15 - 20 mil) and broadcast the surface with quartz sand or use.

Waiting Time / Overcoatability

Products	Substrate Temperature	Minimum time	Maximum time	Usage of SikaWrap® Peel Ply
Sikadur®-330 onto cured Sikadur®-330	+10 °C	24 hours	Cured resin (older than 7 days) needs to be degreased with Sika® Epoxy Cleaner and lightly grinded with sandpaper before coating	No surface preparation is necessary, simply remove the film right before applying the second layer
	+23 °C	12 hours		
	+35 °C	6 hours		
Cured Sikadur®-330	+10 °C	5 days	Cured resin (older than 7 days) needs to be degreased with Sika® Epoxy Cleaner and lightly grinded with sandpaper before coating.	No surface preparation is
overcoated with Sikagard®	+23 °C	3 days		necessary, simply remove the film right before applying the
coloured coatings	+35 °C	1 day		protective coating

Times are approximate and will be affected by changing ambient conditions

Always check for surface tackiness: It should not be tacky before applying a new layer or a coating.

Clean Up

Ventilate area. Confine spill. Collect with absorbent material. Dispose of the material in accordance with current, applicable local, state and federal regulations. Uncured material can be removed with Sika® Epoxy Cleaner. Cured material can only be removed mechanically.

Limitations

- Minimum/maximum substrate and ambient temperature: 10 and 35 °C (50 and 95 °F).
- Ambient temperature must be 3 °C (6 °F) above the dew point.
- Maximum service temperature is 50 °C (122 °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.
- Material disposal: To discard leftovers of Sikadur®-330, mix part A and B to a volume not exceeding 750 mL (25 fl. oz), allow to harden, then discard in metal pails.
- Protect the freshly applied resin from rain for a minimum of 12 hours.
- When used as a primer for SikaWrap® Hex-103 C, SikaWrap®-900 C, SikaWrap®-1400 C or SikaWrap® Hex-100 G, do not use the Sikadur®-300 to prime.

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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Certified ISO 9001 (CERT-0102780) Certified ISO 14001 (CERT-0102791)





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