

PRODUCT DATA SHEET

Sikadur[®]-330

HIGH-MODULUS, HIGH-STRENGTH, IMPREGNATING RESIN

PRODUCT DESCRIPTION

Sikadur[®]-330 is a two-component, solvent-free, moisture-tolerant, high strength, high modulus structural epoxy adhesive.

USES

Sikadur[®]-330 may only be used by experienced professionals.

For use as an impregnating resin with the SikaWrap[®] Hex 106G, 113C, 117C, 230C and 430G Structural Strengthening Systems.

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[®] Systems.
- High temperature resistance.
- High abrasion and shock resistance.
- Solvent-free, VOC compliant.

PRODUCT INFORMATION

Packaging	3.2 gal. (12 L) kit / (2) two 1.25 gal. (4.7 L) Component A pails, (2) two 0.35 gal. (1.3 L) Component B pails
Color	Light gray
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.
Consistency	Non-sag paste

TECHNICAL INFORMATION

Compressive Strength	60 °F (16 °C)	73 °F (23 °C)	90 °F (32 °C)	(ASTM D-695) 50 % R.H.
	8 hour	-	-	
1 day	8,100 psi (55.8 MPa)	10,700 psi (73.7 MPa)	10,600 psi (73.1 MPa)	
3 day	11,200 psi (77.2 MPa)	11,100 psi (76.5 MPa)	11,000 psi (75.8 MPa)	
7 day	11,600 psi (80.0 MPa)	11,200 psi (77.2 MPa)	11,800 psi (81.3 MPa)	
14 day	12,400 psi (85.5 MPa)	11,800 psi (81.3 MPa)	11,900 psi (82.0 MPa)	

Flexural Strength	8,800 psi (60.6 MPa) (7 days)	(ASTM D-790) 73 °F (23 °C) 50 % R.H.
Modulus of Elasticity in Flexure	5.06 x 105 psi (3,489 MPa) (7 days)	(ASTM D-790) 73 °F (23 °C) 50 % R.H.
Tensile Strength	4,900 psi (33.8 MPa) (7 days)	(ASTM D-638) 73 °F (23 °C) 50 % R.H.
Elongation at Break	1.2 % (7 days)	(ASTM D-638) 73 °F (23 °C) 50 % R.H.
Heat Deflection Temperature	120 °F (50 °C) (7 days)	(ASTM D-648) [fiber stress loading=264 psi (1.8 MPa)]

APPLICATION INFORMATION

Mixing Ratio	Component 'A' : Component 'B' = 4 : 1 by weight
Coverage	First coat: 40-50 ft ² /gal.; Additional coats: 100 ft ² /gal.; Final coat: 160 ft ² /gal.
Pot Life	57 minutes (325 ml)
Cure Time	Tack Free Time: 4–5 hours

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 with a 1/2 inch "Jiffy" mixer mounted on a rotary drill and set at a slow speed (400–600 rpm) until uniformly blended. Mix only that quantity that can be used within its pot life.

APPLICATION METHOD / TOOLS

Dry Lay-Up: When installing a SikaWrap® Hex fabric in the dry lay-up process apply the mixed Sikadur®-330 epoxy resin directly onto the substrate at a rate of 40–50 ft²/gal. (0.95–1.18 m²/L). Coverage rate will depend on the actual surface profile. This equates to a thickness of approximately 32–40 mils. Carefully place the fabric into

the applied 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 additional Sikadur®-330 at a rate of 100 ft²/gal. (2.37 m²/L) and repeat as described above. This equates to a thickness of approximately 16 mils. Add a final layer of Sikadur®-330 onto the exposed surface at a rate of 160 ft²/gal. (3.79 m²/L). This equates to a thickness of approximately 10 mils.

Wet Lay-Up: When installing a SikaWrap® Hex fabric vertically or overhead in the wet lay-up process, mixed Sikadur®-330 can be applied to the substrate as a primer/tack coat to prevent the impregnated fabric from sliding down the concrete. Due to its mixed viscosity, do not use Sikadur®-330 with an automatic fabric saturating device. Consult the SikaWrap® Hex fabric technical data sheet for information on saturating/impregnating fabric in a wet lay-up installation.

CLEANING OF TOOLS

Clean all equipment immediately with Sika® Colma Cleaner. Cured material can only be removed mechanically.

LIMITATIONS

- Minimum age of concrete is 21–28 days, depending on curing and drying conditions.
- All repairs required to achieve a level surface must be performed prior to application.
- Do not apply or cure Sikadur®-330 in direct sunlight.
- Minimum substrate temperature 40 °F (4 °C). Maximum application temperature 95 °C (35 °C)
- Do not thin with solvents.
- Material is a vapor barrier after cure.
- Do not encapsulate saturated concrete in areas of freezing and thawing.
- Color of Sikadur®-330 may alter due to variations in lighting and/or UV exposure.
- Due to its mixed viscosity, do not use Sikadur®-330 with an automatic saturating device. Fabric must be saturated/impregnated manually when the wet lay-up process is used.
- At low temperatures and/or high relative humidity, a slight oily residue (blush) may form on the surface of the cured 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 (e.g. MEK) or with water and detergent. In both cases, the surface should be wiped dry prior to application of the next layer or coating.
- 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.

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