

PRODUCT DATA SHEET

Sikadur® Hex-300

High-modulus, high-strength, impregnating resin

PRODUCT DESCRIPTION

Sikadur® Hex-300 is a two-component 100% solids, moisture-tolerant, high strength, high modulus epoxies. Sikadur® Hex 300 is compliant with the 2012 and 2009 International Building Codes (IBC) and the 1997 Uniform Building Code (UBC) per ICC-ES Evaluation Report ESR-3288.

USES

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

- For use as an impregnating resin with the SikaWrap® Structural Strengthening System.
- Sikadur® Hex-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

APPROVALS / STANDARDS

2009 & 2012 International Building Codes (IBC)
1997 Uniform Building Code (UBC) per ICC-ES
Evaluation Report ESR-3288.

PRODUCT INFORMATION

Packaging	4 gallon units
Color	Clear, slightly amber
Shelf Life	24 months from date of production if stored properly in original, unopened and undamaged sealed packaging
Storage Conditions	Store dry at 40–95 °F (4–35 °C). Condition material to 65–75 °F (18–24 °C) before using
Viscosity	~500–750 cps.

TECHNICAL INFORMATION

Compressive Strength	40 °F (4 °C)	73 °F (23 °C)	90 °F (32 °C)	(ASTM D-695)
	3 days	-	8,300 psi (57.2 MPa)	
7 days	1,000 psi (7.1 MPa)	12,000 psi (82.7 MPa)	12,000 psi (82.7 MPa)	
28 days	-	11,300 psi (77.9 MPa)	-	

Material cured and tested at the temperatures indicated and 50 % R.H.

Modulus of Elasticity in Compression	3.8 x 10 ⁵ psi (2,621 MPa) (7 days)	73 °F (23 °C) 50 % R.H.
Flexural Strength	11,500 psi (79.3 MPa)	(ASTM D-790) 73 °F (23 °C) 50 % R.H.
	17,800 psi (123 MPa)	140 °F (60 °C) 50 % R.H. Post cured min. 48 hrs
Modulus of Elasticity in Flexure	5.1 x 10 ⁵ psi (3,517 MPa)	(ASTM D-790) 73 °F (23 °C) 50 % R.H.
	6 x 10 ⁵ psi (4,138 MPa)	140 °F (60 °C) 50 % R.H. Post cured min. 48 hrs
Tensile Strength	7,500 psi (41.4 MPa)	(ASTM D-638) 73 °F (23 °C) 50 % R.H.
	10,200 psi (70.3 MPa)	140 °F (60 °C) 50 % R.H. Post cured min. 48 hrs
Tensile Modulus of Elasticity	2.8 x 10 ⁵ psi	73 °F (23 °C) 50 % R.H.
	3.4 x 10 ⁵ psi (2,345 MPa)	140 °F (60 °C) 50 % R.H. Post cured min. 48 hrs
Elongation at Break	3.2 %	(ASTM D-638) 73 °F (23 °C) 50 % R.H.
	4.8 %	140 °F (60 °C) 50 % R.H. Post cured min. 48 hrs
Heat Deflection Temperature	112 °F (44.5 °C) (7 days) (fiber stress loading = 264 psi (1.8 MPa))	(ASTM D-648)
Water Absorption	0.32 % (7 days (24 hour immersion))	(ASTM D-570)
Service Temperature	-40–140 °F (-40–60 °C)	

APPLICATION INFORMATION

Mixing Ratio	Mix entire unit, do not batch down
Coverage	As a sealer: 100 ft ² /gal.

As an impregnating resin:
120 ft²/gal. - 9 oz. per sq.yd. fabrics
60 ft²/gal. - 18 oz. per sq.yd. fabrics
30 ft²/gal. - 37 oz. per sq.yd. fabrics

Pot Life	~ 3–4 hours	(1 quart volume mixed)
Open Time	~ 6–7 hours	(Time to reach ~10,000 cps)
Cure Time	~ 12–14 hours	(Tack Free)

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 using a paddle style mixer on low speed (400–600 rpm) drill until uniformly blended.

APPLICATION METHOD / TOOLS

As a sealer: Apply mixed Sikadur® Hex-300 epoxy to a properly prepared substrate using a brush, roller or airless sprayer. Sikadur® Hex-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: For vertical and horizontal applications, use Sikadur® Hex-300. For vertical and overhead applications use Sikadur® 330 US as tack coat/primer for the saturated fabric to prevent it from sliding off. Resins may be applied to fabric by either manual or mechanical means. For further information, consult installation guidelines.

LIMITATIONS

- Minimum substrate and ambient temperature 40 °F (4 °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
- Mechanically prepared, top side, horizontal concrete surfaces can be primed with Sikadur® Hex-300. Vertical or overhead surfaces however, must be primed with Sikadur® 330 US.

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

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