

PRODUCT DATA SHEET

Sikadur®-300

Epoxy impregnating and laminating resin for SikaWrap® structural strengthening fabrics

DESCRIPTION

Sikadur®-300 is a two-part, epoxy-based, impregnating and laminating resin for SikaWrap® structural strengthening fabrics.

USES

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

- As an impregnating / laminating resin for the SikaWrap® fabric reinforcement wet application method
 - As a substrate primer for the wet application method
- Please note:
- The Product may only be used by experienced professionals.

CHARACTERISTICS / ADVANTAGES

- Easy to mix and apply
- Applied by roller
- Formulated for manual or mechanical saturation methods
- Good adhesion to various substrates
- Good mechanical properties
- Long pot life

ENVIRONMENTAL INFORMATION

- Contributes towards satisfying Materials and Resources (MR) Credit: Environmental Product Declarations: Option 1 under LEED® v4.1 — 1 point
- Contributes towards satisfying Materials and Resources (MR) Credit: Material Ingredients: Option 2 under LEED® v4.1 — 1 point
- Environmental Product Declaration (EPD) in accordance with EN 15804. EPD independently verified by Institut für Bauen und Umwelt e.V. (IBU)

APPROVALS / STANDARDS

- National Technical Assessment, Sika CarboDur® kit, ITB, No. ITB-KOT-2019/0415 v.2
- National Technical Assessment, Sika CarboDur® kit, ITB, Approval No. ITB-KOT-2018/0414 v.3
- Technical Approval Sika CarboDur, Nr. IBDiM-KOT-2019-0361 v.5
- Technical Approval, CSTB, Avis Technique, Approval No. 3.3/19-1005_V3
- Technical Approval, DIT, No. N604R/25
- Technical Agreement, SikaWrap®, CTPC, No. 016-01/615-2025
- Certificate of Technical Valuation, CSLPP, Certificate No. 259/2023
- Slovakia: Technical Assessment, TSUS, No. SK04-ZSV-2669
- Czech Republic: Technical Approval, ITC, Nr. STO-AO 224-1012/2020/a
- Test Report, Ministry of Regional Development (Ukraine), No. 3HT-219-2167.13-001

PRODUCT INFORMATION

Chemical Base	Epoxy resin	
Packaging	Part A	14.88 kg pre-batched unit
	Part B	5.12 kg pre-batched unit
Refer to the current price list for available packaging variations.		

Colour	Part A	amber / liquid
	Part B	pale yellow / liquid
	Parts A + B mixed	light-yellow / liquid
Shelf Life	24 months from date of production	
Storage Conditions	The product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.	
Density	Mixed resin 1.16 kg/L (at +23 °C)	
Product Declaration	EN 1504-4: Structural bonding	
Viscosity	Shear rate: 50 /s	
	Temperature	Viscosity
	+15 °C	1000 mPa·s
	+23 °C	750 mPa·s
	+40 °C	300 mPa·s

TECHNICAL INFORMATION

Modulus of Elasticity in Flexure	2800 N/mm² (7 days at +23 °C)			(DIN EN 1465)
Tensile Strength	45 N/mm² (7 days at +23 °C)			(EN ISO 527-2)
Modulus of Elasticity in Tension	3500 N/mm² (7 days at +23 °C)			(EN ISO 527-2)
Elongation at Break	1.5 % (7 days at +23 °C)			(EN ISO 527-2)
Tensile Adhesion Strength	Concrete fracture (> 4 N/mm²) on sandblasted substrate			(EN ISO 4624)
Coefficient of Thermal Expansion	6.0 × 10 ⁻⁵ (±0.2 × 10 ⁻⁵) 1/K (linear expansion between -20 °C and +40 °C)			(EN 1770)
Service Temperature	Maximum	+45 °C		
	Minimum	-40 °C		
Glass Transition Temperature	Curing time	Curing temperature	TG	(EN 12614)
	30 days	+30 °C	+53 °C	
Heat Deflection Temperature	Curing time	Curing temperature	HDT	(ASTM D648)
	7 days	+15 °C	+43 °C	
	7 days	+23 °C	+49 °C	
	3 days	+40 °C	+60 °C	
	7 days	+40 °C	+66 °C	
	Resistant to continuous exposure +45 °C.			
Durability	Pass			(EN 13733)

APPLICATION INFORMATION

Mixing Ratio	Part A : Part B = 100 : 34.5 by weight
Consumption	Guide: 0.6–1.0 kg/m ² Also refer to: 850 41 03 Method Statement SikaWrap® manual wet application 850 41 04 Method Statement SikaWrap® saturator application

Product Temperature	Maximum	+40 °C		
	Minimum	+15 °C		
Ambient Air Temperature	Maximum	+40 °C		
	Minimum	+15 °C		
Dew Point	Beware of condensation. The substrate and uncured applied resin must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the resin surface.			
Substrate Temperature	Maximum	+40 °C		
	Minimum	+15 °C		
Substrate Moisture Content	≤ 4 % parts by weight The following test methods can be used: Sika®-Tramex meter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).			
Pot Life	Temperature	Pot life	Open time	(ISO 9514)
	+15 °C	3 hours	6 hours	
	+23 °C	-	4 hours	
	+40 °C	60 minutes	90 minutes	
	The pot life begins when Parts A+B are mixed. It is shorter at high temperatures and longer at low temperatures. The greater the quantity mixed, the shorter the pot life. To obtain longer workability at high temperatures, the mixed adhesive may be divided into smaller quantities. Another method is to chill Parts A+B before mixing (not below +5 °C).			

SYSTEM INFORMATION

System Structure

- Substrate primer: Sikadur®-300 / Sikadur®-330
- Impregnating / laminating resin: Sikadur®-300
- Structural strengthening fabric: SikaWrap® type to suit requirements

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER DOCUMENTS

Reference must be made to the Sika® Method Statements:

- 850 41 03 Method Statement SikaWrap® manual wet application
- 850 41 04 Method Statement SikaWrap® saturator application

LIMITATIONS

- Sikadur® resins are formulated to have low creep under permanent loading. However, due to the creep behavior of all polymer materials under load, the long term structural design load must account for creep. Generally the long term structural design load must be lower than ¼ to ½ of the failure load. A structural engineer must be consulted for load calculations for the specific application.
- Protect from rain for at least 24 hours after application. Ensure placement of fabric and laminating with roller takes place within open time.

- For application in cold or hot conditions, pre-condition material for 24 hours in temperature-controlled storage facilities to improve mixing, application and pot life limits.

ECOLOGY HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Substrates must be structurally sound and of sufficient tensile strength to provide a minimum tensile strength of 1,0 N/mm² or as required in the design specification.

Reference must be made to the Sika® Method Statements:

- 850 41 03 Method Statement SikaWrap® manual wet application
- 850 41 04 Method Statement SikaWrap® saturator application

SUBSTRATE PREPARATION

Reference must be made to the Sika® Method Statements:

- 850 41 03 Method Statement SikaWrap® manual wet application
- 850 41 04 Method Statement SikaWrap® saturator application

MIXING

PRE-BATCHED UNIT

1. Mix part A (resin) briefly using a mixing spindle attached to a slow speed electric mixer (max. 300 rpm).
2. **IMPORTANT** Mix full units only. Add part B (hardener) to part A.
3. Mix parts A+B continuously for at least 3 minutes until a uniformly coloured smooth consistency mix has been achieved.
4. **IMPORTANT** Avoid entraining air into the mix by over-mixing. To ensure thorough mixing, transfer the mixture into a clean container and mix again for 1 additional minute.

BULK CONTAINER

1. **IMPORTANT** Mix only the quantity which can be used within its pot life. Mix part A (resin) briefly using a mixing spindle attached to a slow speed electric mixer (max. 300 rpm).
2. Add both parts in the correct proportion into a suitable clean, dry container.
3. Mix parts A+B continuously for at least 3 minutes until a uniformly coloured smooth consistency mix has been achieved.
4. **IMPORTANT** Avoid entraining air into the mix by over-mixing. To ensure thorough mixing, pour materials into a clean container and mix again for 1 minute.

APPLICATION

Reference must be made to the Sika® Method Statements:

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CLEANING OF TOOLS

Clean all tools and application equipment with Sika® Colma Cleaner immediately after use. Hardened material can only be removed mechanically.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

LEGAL NOTES

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 in accordance with Sika's recommendations. 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 written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. 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.

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Product Data Sheet

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