

Sikadur® Blade Repair Kit-30

Fast, two-component epoxy resin system for structural laminate repairs

Technical Data

	Comp. A: Resin	Comp. B: Hardener
Chemical Base	Epoxy	Amine
Colour (mixed) (CQP ¹ 001-1)	Colour-less to amber	
Curing Mechanism	Poly-addition	
Density (CQP 553-2)	1.16 g/cm ³ approx	1.0 g/cm ³ approx
Density - Mixed (Calculated)	1.13 g/cm ³ approx	
Mixing Ratio	By weight 100 : 26	
Solids Content	100%	100%
Viscosity ² , 25 °C	1250 mPa·s approx	50 mPa·s approx
	mixed	700 mPa·s approx
Application and Processing Temperature	5 °C to 35 °C	
Pot Life ³	30 min. approx	
Density of Cured Specimen ⁴ (ISO 1183)	1.18 g/cm ³ approx	
Shore D-Hardness ⁴ (ISO 868)	85 approx	
Flexural E-Modulus ⁴ (ISO 178)	3100 MPa approx	
Flexural Strength ⁴ (ISO 178)	120 MPa approx	
Tensile E-Modulus ⁴ (ISO 527)	2800 MPa approx	
Tensile Strength ⁴ (ISO 527)	80 MPa approx	
Elongation at Break ⁴ (ISO 527)	6% approx	
Compressive Strength ⁴ (ISO 604)	100 MPa approx	
Impact Resistance ⁴ (ISO 179)	50 kJ/m ² approx.	
Heat Distortion Temperature ⁴ (ISO 75B)	90 °C approx	
Glass Transition Temperature ⁴ (ISO 11357)	94 °C approx	
Shelf Life ⁵ (CQP 016-1)	12 months	
¹⁾ CQP = Corporate Quality Procedure ²⁾ Rotation, PP40, 0.5 mm, 150 min ⁻¹ ³⁾ 23°C/ 50% r.h. ⁴⁾ After 2 h curing at 80°C ⁵⁾ Stored between 5°C and 35°C in original, unopened packaging		

Description

Sikadur® Blade Repair Kit-30 is a high T_g composite resin system for wet lay-up processing. Sikadur® Blade Repair Kit-30 is manufactured in accordance with ISO 9001/14001 quality assurance system.

Product Benefits

- Approved by Germanischer Lloyd
- Good impregnation and non-draining properties
- High Heat Distortion Temperature
- Fast-curing
- High stiffness and strength
- Lightweight packaging (MixPac); pre-measured and easy to mix
- Resistant to crystallization at low temperatures



Areas of Application	Sikadur® Blade Repair Kit-30 is designed for repairing damaged laminate structures on rotor blades. It is optimized for manual lay-up, but can also be used to repair patches by vacuum infusion. This product is suitable for professional experienced users only. Tests with actual substrates under actual conditions should be performed to ensure material compatibility and to validate adhesion.
Cure Mechanism	Curing of Sikadur® Blade Repair Kit-30 takes place by chemical reaction of the two components. Higher temperatures speed up the curing process while lower temperatures slow it down.
Environmental Resistance	In case of expected chemical or thermal exposure, project-related testing is recommended. For advice, contact Sika Canada's Technical Services Department.
Surface Preparation	It is necessary to prepare the substrate prior to lamination to ensure optimal adhesion and strength. Based on the surface condition and type of material, physical or chemical pre-treatment may be required after the cleaning process. Advice on specific applications is available from the Technical Services Department of Sika Canada.
Mixing	Remove the plastic clip that separates the Hardener from the Resin. Use the clip to squeeze the two components together; mix within the unopened package for approximately 30 seconds until properly blended. Carefully cut off one corner of the package and pour the contents into a cup. The resin is now ready to use. Apply the resin within its Pot Life. Note: Low application temperatures will influence the mixing, application and processing properties. Refer to the corresponding Application Guidelines for further information or consult Sika Canada's Technical Services Department.
Cleaning	Uncured Sikadur® Blade Repair Kit-30 resin may be removed from tools and equipment with Sika® Cleaner P. Once cured, the material can only be removed mechanically. Hands and exposed skin should be washed immediately using Sika® Hand Clean towels or a suitable industrial hand cleaner and water. Do not use solvents!
Storing	Packages of Sikadur® Blade Repair Kit-30 are to be stored in a dry place at temperatures ranging between 5 °C and 35 °C. Do not expose to direct sunlight. If crystallization of the resin occurs, heat the MixPac to 60 °C for at least 60 minutes.
Further Information	Copies of the following publications are available upon request: <ul style="list-style-type: none"> ■ Material Safety Data Sheet; ■ Additional Product Information for Structural Laminate Repairs; ■ Sika® MixPac Instruction Sheet.
Packaging	20 x 300 g dual-component MixPacs
Value Bases	All technical data stated in this Product Data Sheet are laboratory test-based. Current measured values may vary due to factors beyond our influence.
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the current Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data for the appropriate type of substance. Product Data Sheets and Material Safety Data Sheets are available on our website at: www.sika.ca or via your local Sika representative.

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 shelf life. 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Product Data Sheet for the product concerned, copies of which will be supplied on request or can be accessed in the Internet under www.sika.ca.

Sika Canada Inc.
601 Delmar Avenue
Pointe-Claire, QC H9R 4A9
Tel.: 514-697-2610
Fax: 514-697-3910

1-800-689-SIKA
www.sika.ca

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