

PRODUCT DATA SHEET

SikaWrap®-930 G

WOVEN UNIDIRECTIONAL GLASS FIBRE FABRIC, DESIGNED FOR STRUCTURAL STRENGTHENING APPLICATIONS AS PART OF THE SIKA® STRENGTHENING SYSTEM.

PRODUCT DESCRIPTION

SikaWrap®-930 G is a unidirectional woven glass fibre fabric designed for installation using the wet application process.

USES

SikaWrap®-930 G may only be used by experienced professionals.

Structural strengthening of reinforced concrete, masonry, brickwork and timber elements or structures, to increase flexural and shear loading capacity for:

- Improved seismic performance of masonry walls
- Increasing the strength and ductility of columns
- Enabling changes in use / alterations and refurbishment
- Correcting structural design and / or construction defects
- Increasing resistance to seismic movement
- Improving service life and durability
- Structural upgrading to comply with current standards
- Blast mitigation (accidents or terrorism)
- Electrical environments that ask for non-conductive material

CHARACTERISTICS / ADVANTAGES

- Manufactured with heat-set weft fibres to keep the fabric stable
- Multifunctional fabric for use in many different strengthening applications
- Flexible and accommodating of different surface planes and geometry (beams, columns, chimneys, piles, walls, soffits, silos etc.)
- Low density for minimal additional weight
- Extremely cost effective in comparison to traditional strengthening techniques
- Very low electrical conductivity

PRODUCT INFORMATION

Construction	Fibre orientation Warp Weft	White gla	0° (unidirectional) White glass fibres 98 % White thermoplastic heat-set fibres 2 %		
Fibre type	E-glass fibres				
Packaging	1 roll in cardboard box	Fabric length per roll ≥ 50 m	Fabric width 600 mm		
Shelf Life	24 months from date of production				

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Storage Conditions	Store in undamaged, origin		packaging, in dry co	nditions at temper-	
	atures between +5 °C and +35 °C. Protect from direct sunlight.				
Dry Fibre Density	2.56 g/cm ³				
Dry Fibre Thickness	0.363 mm (based on total glass content)				
Area Density	930 g/m ² + 20 g/m ² (glass fibres only)				
Dry Fibre Tensile Strength	2 500 N/mm ² (measuerd on roving)		(EN 2561)		
Dry Fibre Modulus of Elasticity in Tension	72 000 N/mm²		(EN 2561)		
Dry Fibre Elongation at Break	2.7 % (measured on roving)			(EN 2561)	
TECHNICAL INFORMATION					
Laminate Nominal Thickness	0.363 mm				
Laminate Nominal Cross Section	363 mm ² per m width				
Laminate Tensile Strength	Average	Characteristic		(EN 2561*)	
	1 500 N/mm ²	1 200 N/	mm²		
Laminate Tensile Modulus of Elasticity		Characteristic		(EN 2561*)	
	70 kN/mm ²	68 kN/m	nm²		
	* modification: sample with 50 mm Values in the longitudinal direction of Single layer, minimum 27 samples per				
Laminate Elongation at Break	Strain 2.14 %			(EN 2561)	
Tensile Resistance	Average	Characteristic		(EN 2561)	
	545 kN/m	436 kN/ı	<u>m</u>		
Tensile Stiffness	Average	Characteristic		EN 2561)	
	25.4 MN/m	24.7 MN	·		
	25.4 kN/m per ‰ elonga- tion	tion	m per ‰ elonga-		
SYSTEM INFORMATION					
System Structure	The system build-up and configuration as described must be fully complied with and may not be changed.				
	Concrete substrate adhesive primer Sikadur®-330				
	<u> </u>		Sikadur®-300 SikaWrap®-930 G		
			n together with		
	For detailed information on Sikadur®-330 or Sikadur®-300, together with the resin and fabric application details, refer to the Sikadur®-330 or Sikadur®-300 Product Data Sheet.				
APPLICATION INFORMATIO	N				
Consumption	Wet application with Sikadur®-300, primer Sikadur®-330				
	Primer layer 0.6–0.8 kg/m ²				
	Fabric layers		1.0 kg/m ²		

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	Primer layer	0.6–0.8 kg/m ²	
	Fabric layers	1.0 kg/m ²	
	Refer to the relevant Technical Information Manual for further information.		





APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Minimum substrate tensile strength: 1.0 N/mm² or as specified in the strengthening design.

Refer to the relevant Technical Information Manual for further information.

SUBSTRATE PREPARATION

Concrete must be cleaned and prepared to achieve a laitance and contaminant free, open textured surface. Refer to the relevant Technical Information Manual for further information.

APPLICATION METHOD / TOOLS

The fabric can be cut with special scissors or a Stanley knife (razor knife / box-cutter knife). Never fold the fabric.

SikaWrap®-930 G is applied using the wet application process.

Refer to the relevant Technical Information Manual for details on the impregnating / laminating procedure.

FURTHER DOCUMENTS

Technical Information Manuals

Ref. 850 41 03: SikaWrap® manual wet application Ref. 850 41 04: SikaWrap® machine wet application

LIMITATIONS

- SikaWrap®-930 G shall only be applied by trained and experienced professionals.
- A specialist structural engineer must be consulted for any structural strengthening design calculation.
- SikaWrap®-930 G fabric is coated to ensure maximum bond and durability with the Sikadur® adhesives / impregnating / laminating resins. To maintain and ensure full system compatibility, do not interchange different system components.
- SikaWrap®-930 G can be over coated with a cementitious overlay or other coatings for aesthetic and / or protective purposes. The over coating system selection is dependent on the exposure and the project specific requirements. For additional UV light protection in exposed areas use Sikagard®-550 W Elastic, Sikagard® ElastoColor-675 W GB or Sikagard®-680 S.
- Refer to the Technical Information Manual for SikaWrap® manual wet application (Ref. 850 41 03) or SikaWrap® machine wet application (Ref. 850 41 04) for further information, guidelines and limitations.

VALUE BASE

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.

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.

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in this product data sheet.Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0.1 % (w/w)

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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SIKA LIMITED Watchmead

Welwyn Garden City Hertfordshire, AL7 1BQ Tel: 01707 394444 Web: www.sika.co.uk Twitter: @SikaLimited







SIKA IRELAND LIMITED **Ballymun Industrial Estate**

Ballymun Dublin 11, Ireland Tel: +353 1 862 0709 Web: www.sika.ie

Twitter: @SikaIreland



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