

# PRODUCT DATA SHEET

# SikaWrap®-930 G

Woven unidirectional glass fibre fabric, designed for structural strengthening applications as part of the Sika® strengthening system.

#### **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	0° (unidire	0° (unidirectional)	
	Warp	White glass fibres 98 % White thermoplastic heat-set fibres		
	Weft			
		2 %		
Fibre Type	E-glass fibres			
Packaging		Fabric length per roll	Fabric width	
	1 roll in cardboard box	≥ 50 m	600 mm	

### PRODUCT DATA SHEET

**SikaWrap®-930 G**May 2021, Version 02.01
020206020020000008

24 months from date of production		
Store in undamaged, original sealed packaging, in dry conditions at temperatures between +5 °C and +35 °C. Protect from direct sunlight.		
2.56 g/cm <sup>3</sup>		
0.363 mm (based on total glass content)		
930 g/m <sup>2</sup> + 20 g/m <sup>2</sup> (glass fibres only)		
2 500 N/mm² (measuerd on roving)		(EN 2561)
72 000 N/mm²		(EN 2561)
2.7 % (measured on roving)		(EN 2561)
0.363 mm		
363 mm² per m width		
Average 1 500 N/mm <sup>2</sup>	Characteristic 1 200 N/mm²	(EN 2561*) (ASTM 3039*)
Average 70 kN/mm²  * modification: sample with 50 mm Values in the longitudinal direction of	Characteristic 68 kN/mm²	(EN 2561*) (ASTM 3039*)
	test series	(based on EN 2561) pased on ASTM 3039)
Амотодо	•	(based on EN 2561)
545 kN/m	436 kN/m	(based on ASTM 3039)
Average 25.4 MN/m 25.4 kN/m per ‰ elongation	Characteristic 24.7 MN/m 24.7 kN/m per ‰ elongation	(based on EN 2561) (based on ASTM 3039)
with and may not be changed.  Concrete substrate adhesive primer Impregnating / laminating resin  Sikadur®-330 Sikadur®-300		t be fully complied
For detailed information on Sikadur®-330 or Sikadur®-300, together with the resin and fabric application details, please refer to the Sikadur®-330 or Sikadur®-300 Product Data Sheet and the relevant Method Statement.		
N		
Wet application with Sikadur®-300, primer Sikadur®-330  Primer layer  Fabric layers  Please also refer to the relevant Method Statement for f		)
	Store in undamaged, origin peratures between +5 °C a Protect from direct sunlight 2.56 g/cm³  0.363 mm (based on total grade part of the perature) (glass of the perature) (gl	Store in undamaged, original sealed packaging, in dry coperatures between +5 °C and +35 °C. Protect from direct sunlight.  2.56 g/cm³  0.363 mm (based on total glass content)  930 g/m² + 20 g/m² (glass fibres only)  2 500 N/mm² (measuerd on roving)  72 000 N/mm²  2.7 % (measured on roving)  0.363 mm  363 mm² per m width  Average

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#### **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**

#### **Method Statements**

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 or Sikagard®-680 S.
- Please refer to the Method Statement of SikaWrap® manual wet application (Ref. 850 41 03) or SikaWrap® machine wet application (Ref. 850 41 04) for further information, guidelines and limitations.

#### **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)

#### Sika Pakistan (Pvt.) Limited

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#### **APPLICATION INSTRUCTIONS**

#### SUBSTRATE QUALITY

Minimum substrate tensile strength: 1.0 N/mm² or as specified in the strengthening design. Please also refer to the relevant Method Statement for further information.

#### SUBSTRATE PREPARATION

Concrete must be cleaned and prepared to achieve a laitance and contaminant free, open textured surface. Please also refer to the relevant Method Statement 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.

Please refer to the relevant Method Statement for details on the impregnating / laminating procedure.

#### 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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