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PRODUCT DATA SHEET SikaWrap[®]-930 G

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

DESCRIPTION

SikaWrap[®]-930 G is a unidirectional woven glass fiber 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

PRODUCT INFORMATION

CHARACTERISTICS / ADVANTAGES

- Manufactured with heat-set weft fibers 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
- Complies to ACI 440.2R

Construction	Fiber orientation Warp		0° (unidirectional) White glass fibers 98 % White thermoplastic heat-set fibres 2 %	
	Weft	White the		
Fibre Type	E-glass fibers			
Packaging	1 roll in cardboard box	Fabric length per roll 40 m	Fabric width 500 mm	
Shelf Life	Unlimited if stored properly			

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Storage Conditions	Store in undamaged, original sealed packaging, in dry condition peratures between +5 °C and +35 °C. Protect from direct sunlight.	ons at tem-
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 Ten- sion	72 000 N/mm ²	(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/mm ²	(ASTM 3039*)
Laminate Modulus of Elasticity in Ten-	Average	Characteristic	(EN 2561*)
sion	70 kN/mm ²	68 kN/mm ²	(ASTM 3039*)
	* modification: sample with 50 mm Values in the longitudinal direction of Single layer, minimum 27 samples per		
Laminate Elongation at Break in Tensio	n 2.14 %	((based on EN 2561) based on ASTM 3039)
Tensile Resistance	Average	Characteristic	(based on EN 2561)
	545 kN/m	436 kN/m	(based on ASTM 3039)
Tensile Stiffness	Average	Characteristic	(based on EN 2561)
	25.4 MN/m	24.7 MN/m	(based on ASTM
	25.4 kN/m per ‰ elonga-	24.7 kN/m per ‰ elonga-	3039)

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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	
	Impregnating / laminating resin	Sikadur [®] -300	
	Structural strengthening fabric	SikaWrap [®] -930 G	
	Sikadur [®] -300 Product Data Sheet and	ils, please refer to the Sikadur [®] -330 or	
Consumption	Wet application with Sikadur [®] -300, primer Sikadur [®] -330		
	Primer layer	1.3–1.8 kg/m ²	

Please also refer to the relevant Method Statement for further information.

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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.

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.
- 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.

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.

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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

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.

REGULATION (EC) NO 1907/2006 - REACH

We follow PLC -Priority Chemical List and PICCS- Philippine Inventory of Chemicals and Chemical Substances but we don't indicate on our local PDS.

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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