

PRODUCT DATA SHEET

SikaWrap® FX-75 G

Glass fibre string for structural connection and anchoring of SikaWrap® strengthening systems

DESCRIPTION

SikaWrap® FX-75 G is a unidirectional glass fibre string, encased in a plastic envelope, that serves as fibre connector for the anchorage of SikaWrap® fabrics.

USES

SikaWrap® FX-75 G may only be used by experienced professionals.

- Anchoring SikaWrap® carbon and glass fibre fabrics on concrete or masonry
- Connecting SikaWrap® carbon or glass fibre fabrics through concrete or masonry structures
- Anchoring the SikaWrap® Textile Reinforced Mortar (TRM) system
- Flexible near surface mounted strengthening (NSM)

CHARACTERISTICS / ADVANTAGES

- Glass fibre
- Multifunctional use
- Easy to install

PRODUCT INFORMATION

Construction	Unidirectional glass fibre string encased in a plastic envelope.	
Fibre type	E- Glass Fibre	
Packaging	25 m roll on a plastic reel dispenser	
Shelf life	24 months from date of production	
Storage conditions	Store in undamaged, original sealed packaging, in dry conditions at temperatures between +5 °C and +35 °C. Protect from direct sunlight.	
Dry fibre density	2,4 g/m (roving, 2400 tex)	
Cross section	27,5 mm ² (dry fibre)	
Area density	≥ 70 g/m (glass fibre content)	
Dry fibre tensile strength	900 N/mm ²	(ASTM D 4018)
Dry fibre modulus of elasticity in tension	70 kN/mm ²	(ASTM D 4018)
Dry fibre elongation at break	1,25%	

TECHNICAL INFORMATION

Laminate nominal cross section	63 mm ² * *Impregnating resin: Sikadur®-300, Sikadur®-52 N or Sikadur®-52 LP
Laminate tensile strength	780 N/mm ² (related to fibre cross section)* *Impregnating resin: Sikadur®-300, Sikadur®-52 N or Sikadur®-52 LP Values in longitudinal direction of the fibres
Laminate modulus of elasticity in tension	35 kN/mm ² (related to fibre cross section)* *Impregnating resin: Sikadur®-300, Sikadur®-52 N or Sikadur®-52 LP *Values in longitudinal direction of the fibres

SYSTEMS

System structure	<p>The system build-up and configuration as described must be fully complied with and may not be changed.</p> <ul style="list-style-type: none">▪ Impregnating/laminating resin: Sikadur®-300, Sikadur®-52 N or Sikadur®-52 LP.▪ Anchorage resin: Sikadur®-330, AnchorFix®-3001 or AnchorFix®-3030.▪ Structural strengthening fabric: SikaWrap® carbon or glass fibre fabric <p>The embedded composite will have a diameter of ~11 mm.</p> <p>For detailed information on Sikadur®-330, Sikadur®-300, Sikadur-52 N or Sikadur®-52 LP, AnchorFix®-3001 and AnchorFix®-3030, together with the resin and fabric application details, please refer to the relevant Product Data Sheets and the Method Statements of SikaWrap® manual dry application (Ref. 850 41 02), SikaWrap® manual wet application (Ref. 850 41 03), Installation of SikaWrap® FX (Ref. 850 41 09) and Textile Reinforced Mortar combined with SikaWrap FX fibre connector (Ref. 850 41 08 A).</p>
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APPLICATION INFORMATION

Consumption	Anchor impregnation: 100–140 g/m SikaWrap® fabrics: Please refer to the relevant product data sheets
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APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Minimal substrate tensile strength: 1,0 N/mm² or as specified in the strengthening design.
For further details, see also the Method Statements of installation of SikaWrap® FX (Ref. 850 41 09), SikaWrap® manual dry application (Ref. 850 41 02), SikaWrap® manual wet application (Ref. 850 41 03) or SikaWrap® machine wet application (Ref. 850 41 04) and Textile Reinforced Mortar combined with SikaWrap FX fibre connector (Ref. 850 41 08 A).

Concrete and masonry:

Substrates must be sound, dry, clean and free from laitance, ice, standing water, grease, oils, old surface treatments or coatings and any loosely adhering particles.

SUBSTRATE PREPARATION

Concrete must be cleaned and prepared to achieve a laitance and contaminant free, open textured surface. Repairs and levelling:
If carbonised or weak concrete cover has to be removed or levelling of uneven surfaces is needed, the following systems can be applied:
Structural repair materials: Sikadur®-30 epoxy repair mortar, Sikadur®-31 EF adhesive or the Sika Mono-

Top® Dynamic HP (details on application and limitation see the relevant Product Data Sheets).
For further details, see also the Method Statements of installation of SikaWrap® FX (Ref. 850 41 09), SikaWrap® manual dry application (Ref. 850 41 02) SikaWrap® manual wet application (Ref. 850 41 03) or SikaWrap® machine wet application (Ref. 850 41 04) and Textile Reinforced Mortar combined with SikaWrap FX fibre connector (Ref. 850 41 08 A).

APPLICATION METHOD / TOOLS

SikaWrap® FX-75 G can be cut with special scissors. Please refer to the Method Statement of installation of SikaWrap® FX (Ref. 850 41 09) for the anchor installation and the Method Statement of SikaWrap® manual wet application (Ref. 850 41 03) or SikaWrap® machine wet application (Ref. 850 41 04) for the impregnating / laminating procedure of the fabrics.

IMPORTANT CONSIDERATIONS

SikaWrap® FX-75 G should only be used by trained and experienced professionals.

- The strengthening application is inherently structural and great care must be taken when choosing suitably experienced contractors.
- Notes and limitations mentioned in the Method Statement installation of SikaWrap® FX (Ref. 850 41 09) must be taken into account.

- The SikaWrap® products are 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.
- The SikaWrap® system 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 dry application (Ref. 850 41 02), SikaWrap® manual wet application (Ref. 850 41 03) or SikaWrap® machine wet application (Ref. 850 41 04) and Textile Reinforced Mortar combined with SikaWrap FX fibre connector (Ref. 850 41 08 A) 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.

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 the 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).

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Product Data Sheet

SikaWrap® FX-75 G
September 2020, Version 02.01
020206020040000014

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.

SikaWrapFX-75G-en-GR-(09-2020)-2-1.pdf