Product Data Sheet Edition 09/06/2016 (v2) Identification no: 010206020040000001 Code: 08.05.010 SikaWrap<sup>®</sup>-350G Grid

## SikaWrap<sup>®</sup>-350G Grid

Fiberglass net for structural reinforcement of plasters and mortars

Product Description	SikaWrap <sup>®</sup> -350 G Grid is a balanced bi-directional glass fibre grid, equipped with an alkali resistant coating, to be used as part of a textile reinforced mortar.
Uses	<ul> <li>SikaWrap<sup>®</sup>-350 G Grid embedded in Sika MonoTop<sup>®</sup>-722 Mur is used for</li> <li>Reinforcing masonry walls made of brick, blocks or stone</li> <li>Reinforcing infill masonry walls</li> <li>Connecting masonry walls to other walls or to an RC structure</li> <li>Increasing the resistance to out-of-plane failure of masonry walls subject to horizontal earthquake action</li> <li>Increasing the in plane resistance and ductility of masonry walls subject to horizontal earthquake action</li> <li>Repair of cracked masonry walls</li> </ul>
Characteristics / Advantages	<ul> <li>High tensile resistance in both directions</li> <li>Economical</li> <li>Non corroding</li> <li>Alkali resistant coating</li> </ul>
Δοκιμές	
Εγκρίσεις/ Πρότυπα	Politecnico di Milano - Dipartimento di Ingegneria Strutturale: Prove di caratterizzazione di sitemi di rinforzo di elementi in muratura (Contratto di ricerca 2011-2012) ZAG Ljubljana (SLO): Seismic strengthening of brick masonry walls with TRM system (0785/08-650-1 - 2011)
	Eurocode 6: Design of masonry structures
	ACI 530/530.1-13: Building Code Requirements and Specification for Masonry Structures
	Eurocode 8: Design of structures for earthquake resistance
	ACI 549.4R-13 Guide to Design and Construction of Externally Bonded Fabric- Reinforced Cementitious Matrix (FRCM) Systems for Repair and Strengthening Concrete and Masonry Structures.
	ACI 440.7R-10 Guide for the Design and Construction of Externally Bonded Fiber Reinforced Polymer Systems for Strengthening Unreinforced Masonry Structures
	CNR-DT 200 R1 (2013) Guide for the Design and Construction of Externally Bonded FRP Systems for Strengthening Existing Structures, (Italy)



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Product		
Characteristics	Glass fibre grid with alkali resistant SBR	R coating
Colour	grey	
Fibre Type	E-glass fibre	
Fabric Construction	Fibre orientation 0°/90° (bi-directional)	
Packing	Roll length: 50m Roll width: 1000 mm	
Shelf life	24 months from date of production if sto packaging in dry conditions at temperate Protect from direct sunlight.	
Technical Data		
Areal Weight Glass fibre	Total: 280 g/m $^2 \pm 5\%$	
	Warp (longitudinal): 145 g/m $^2\pm5\%$	
	Weft (transverse): 135 g/m $^2 \pm 5\%$	
Areal Weight with coating	Total: 360 g/m <sup>2</sup> $\pm$ 3%	
Fibre Density	2.6 g/cm <sup>3</sup>	
Finishing	Soft SBR coating	
Stitch spacing	18.1 x 14.2 mm (center to center distance	ce)
Mechanical / Physical Properties		
Dry Fibre Properties	Tensile strength: 2'600 N/mm <sup>2</sup> (measured on roving)	
	Tensile E-modulus: > 80'000 N/mm <sup>2</sup>	
Grid Properties	Ultimate load: Warp (longitudinal): 77 kN/m Weft (transverse): 76 kN/m	
	Elongation at break: Warp: ca. 4,10 % Weft: ca. 3,45 %	
	Note: The above values are typical and indica Effective values depend on the quality of procedure. Apply material reduction factors accordi	of application and the type of tensile testing
System Information		
System Structure	Sika <sup>®</sup> MonoTop <sup>®</sup> -722 Mur forms part of System (TRM) which comprises of the f	ollowing products:
	Mortar for bonding and incorporation of Sika <sup>®</sup> MonoTop <sup>®</sup> -722 Mur	the grid: Cementitious mortar with low E-modulus
	Fiberglass for structural strengthening: SikaWrap <sup>®</sup> -350 G Grid	Bi-directional glass fibre grid
	Anchoring:	
	SikaWrap <sup>®</sup> FX-50 C	Carbon fiber anchor or

SikaWrap <sup>®</sup> -350 G Grid is embedded in Sika <sup>®</sup> MonoTop <sup>®</sup> -722 Mur. Following application procedure is applied: A first layer of Sika <sup>®</sup> MonoTop <sup>®</sup> -722 Mur is applied to the prepared substra Recommended minimum layer thickness is 5mm. SikaWrap-350 G Grid is embedded in the fresh first layer of mortar. A second layer of Sika <sup>®</sup> MonoT 722 Mur is applied to completely cover the reinforcement grid. Recommend thickness of the second layer is 5mm. Second layer should be applied frest fresh. Finishing of fresh mortar surface according to project requirements using w or plastic float is possible. For further information, please refer to the Method Statement "Textile reinfor Mortar", Ref. 850 41 008. See Product Datasheet of Sika <sup>®</sup> MonoTop <sup>®</sup> -722 Mur See Product Datasheet of Sika <sup>®</sup> MonoTop <sup>®</sup> -722 Mur See Product Datasheet of Sika <sup>®</sup> MonoTop <sup>®</sup> -722 Mur See Product Datasheet of Sika <sup>®</sup> MonoTop <sup>®</sup> -722 Mur See Product Datasheet of Sika <sup>®</sup> MonoTop <sup>®</sup> -722 Mur See Product Datasheet of Sika <sup>®</sup> MonoTop <sup>®</sup> -722 Mur See Product Datasheet of Sika <sup>®</sup> MonoTop <sup>®</sup> -722 Mur See Product Datasheet of Sika <sup>®</sup> MonoTop <sup>®</sup> -722 Mur See Product Datasheet of Sika <sup>®</sup> MonoTop <sup>®</sup> -722 Mur See Product Datasheet of Sika <sup>®</sup> MonoTop <sup>®</sup> -722 Mur Product Datasheet of Sika <sup>®</sup> MonoTop <sup>®</sup> -722 Mur See Product Datasheet of Sika <sup>®</sup> MonoTop <sup>®</sup> -722 Mur See Product Datasheet of Sika <sup>®</sup> MonoTop <sup>®</sup> -722 Mur Product Datasheet of Sika <sup>®</sup> MonoTop <sup>®</sup> -722 Mur All technical data stated in this Product Data Sheet are based on laborator Actual measured data may vary due to circumstances beyond our control. Please note that as a result of specific local regulations the performance of product may vary from country to country. Please consult the local Product Sheet for the exact description of the application fields.
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This product is an article within the meaning of Regulation (EC) No 1907/2 (REACH). It contains no substances which are intended to be released fro article under normal or reasonably foreseeable conditions of use. Therefor are no registration requirements for substances in articles within the mean Article 7.1 of the Regulation.
Based on our current knowledge, this product does not contain SVHC (substances of very high concern) from the candidate list published by the European Chemicals Agency in concentrations above 0.1 % (w/w).
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