Kimitech WALLMESH MR

Pre-primed, thermosetting, AR glass fibre mesh

Scheda Tecnica rev.01_05/2025

DESCRIPTION

Kimitech WALLMESH MR is a preformed mesh made of composite material consisting of pre-primed, alkaline-resistant, thermosetting glass fibers used in combination with mortars from Basic, Betonfix, and Tectoria for reinforcement of masonry and concrete structures.

APPLICATION

To guarantee the proper cooperation of the reinforced casting with Kimitech WALLMESH MR mesh, it is necessary to provide an adequate connection systems.
We recommend the use of "L" shaped, pre-formed, thermosetting, fiberglass connectors Kimitech PLUG VR . The suggested quantity is 4 connectors for each square meter of intervention.

In order to prevent the mesh from being pushed into direct contact with the substrate during application, as it is not incorporated into the casting and because it cannot counteract movements and shrinkage in the short and long term, it is essential to follow this procedure:

- Demolition of existing plaster and detached parts including scarification of bed joints
- Washing and wetting of the surface until SSD conditions
- Possible reconstruction of missing or particularly damaged masonry parts.
- Application of a first rough coat (1,5-2 cm) on the masonry wall
- Installation of the mesh, partially incorporating it in the fresh render mortar, overlapping of the mesh strips for about 15 - 20 cm in order to guarantee mechanical continuity. Possible application of the corners in correspondence of the edges obtained by cutting Kimitech WALLMESH CORNER roll for a height of 68 cm.
- Drilling (diameter 20 mm, of the necessary depth or passing through), cleaning, insertion of the connectors, application, where foreseen, of distribution wipes obtained by cutting Kimitech WALLMESH RP stripe and injection of chemical anchoring
- Application of plaster respecting project needs (1,5-2 cm)
- In the case of plasters reinforced with Kimitech WALLMESH MR mesh, the skim coating should be carried out upon completion of the plaster curing (wait at least 1 week for each centimeter of thickness, and at least 3 weeks in total), so as to seal any shrinkage cracks that may appear especially for plasters in high thicknesses (in these cases it is always advisable to reinforce pre-painting skim coating with Kimitech 350 mesh).

Kimitech WALLMESH RP is supplied in rolls with a height of approximately 16 cm. We will then cut the stripe to obtain squares of 16 cm x 16 cm from it.
For each meter of length of the stripe, 6 dividing plates are obtained.

PACKAGING

- Kimitech WALLMESH MR
  Rolls: Width 100 cm, length 50 m.
- Kimitech WALLMESH RP
  Rolls: Width 16 cm, length 25 m.
- Kimitech WALLMESH CORNER
  Rolls: Width 68 cm, length 50 m.

Kimitech WALLMESH MR mesh can also be produced and sold in different colors in addition to the standard one (white).

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CHARACTERISTICS	KIMITECH WALLMESH MR
Zirconium content Zr (%)	>16
Non-primed fabric weight UNI 9311/4	235 g/m²
Primed fabric weigth UNI 9311/4	335 g/m²
Elongation at failure UNI 9311/5	3,5%
Single wire failure load	Warp: 3,15 KN Weft: 3,15 KN
Number of wires per metre	20
Resistance per unit of mesh width	Warp: 63±1 N/mm Weft: 63±1 N/mm
Uni 9311/5	Warp: 0,0438 mm Weft: 0,0438 mm
Equivalent thicnkess	Warp: 43,843 mm²/m Weft: 43,843 mm²/m
Average thickness of primed fabric UNI 9311/3	1,7 mm
Mesh size (internal measures)	50 x 50 mm

WARNING

Product intended for professional use.
The product is an item according to the definitions of Regulation (EC) n. 1907/2006 and therefore does not require a Safety Data Sheet.
The marking obligations are not related to the intrinsic nature of a given product, but to the use for which a specific material is used: before placing the orders, it will be the customer's responsibility to submit all the available documentation to the works supervision in order to explain the suitability of the materials (in terms of certifications and performance) in relation to the use to which they are intended.
The information and requirements indicated in this Technical Data Sheet are based on our current knowledge and experience and are to be considered, in any case, purely indicative. They cannot guarantee the final result of the applied product and they have to be confirmed by exhaustive practical applications; therefore the user must test the suitability of the product for the intended application and its purpose. Users must always refer to the latest version of the local technical data sheet related to the product.

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