

Kimitech WALLMES CORNER-HD



Scheda Tecnica rev.01_05/2025

DESCRIPTION

Kimitech WALLMESH CORNER-HD is an impregnated glass fibre corner element for structural reinforcement of existing masonry using the reinforced concrete mortar technique (CRM).

USES

Kimitech WALLMESH CORNER-HD is used as an angular element for repairing and reinforcing masonry elements (wall males, vaults, arches, etc.) using the CRM reinforced plaster technique, in combination with nets Kimitech WALLMESH MR-HD and Kimitech WALLMESH HR-HD.

WORKS

Structural reinforcement with crm systems consisting of a.r. glass fibre mesh and natural hydraulic lime mortar (SA154)

CERTIFICATIONS

It is CE marked in accordance with EAD 340392-00-0104: 'CRM (Composite Reinforced Mortar) Systems for strengthening concrete and masonry structures'.



APPLICATION

In correspondence with the corners, Kimitech WALLMESH CORNER-HD corner elements forming part of the ETA-certified CRM package must be used, after positioning Kimitech WALLMESH MR-HD netting, ensuring correct overlapping between the netting and the corner element and then anchoring with CE marked Kimisteel INOX X-BAR stainless steel helical bars as a connection system with at least 4 connectors per m².

In order to prevent the mesh being pushed into direct contact with the substrate during application, as it is not incorporated in the casting and cannot adequately

counteract its movement and shrinkage in the short and long term, it is essential to proceed in accordance with this procedure:

- Demolition of existing plaster and decohered parts and scarification of bedding joints.
 - Washing and wetting of the surface to saturation.
 - Possible reconstruction of missing or particularly damaged parts of the masonry.
 - Application of a first layer of rendering to the wall face, approximately 1.5 - 2 cm thick.
 - Laying of the mesh, partially incorporating it in the fresh mortar of the rendering, overlapping the bands of mesh by approximately 15 - 20 cm in order to guarantee mechanical continuity.
 - Laying the corner elements
 - Drilling of the holes (20 mm diameter, of the necessary depth or through holes), cleaning, insertion of the connectors and injection of chemical anchor.
 - Application of plaster with design characteristics for a thickness of approx. 1.5 - 2 cm.

In the case of plasters reinforced with Kimitech WALLMESH HR-HD mesh, a double corner element Kimitech WALLMESH CORNER-HD should be laid by applying one corner element before laying the mesh and one after applying the mesh layer, in order to create a package with adequate resistance characteristics.

PACKAGING

Kimitech WALLMESH MR-HD
Altezza 100 cm, lunghezza x larghezza 25x25 cm.

CHARACTERISTICS	KIMITECH WALLMESH CORNER-HD
Zirconium content zr (%)	>16
Non-primed fabric weight	255 g/m ²
Primed fabric weight	305 g/m ²
Meshes size	38 x 38 mm
Fibre density	2,68 g/cm ³
Density of thermosetting epoxy resin	1,1 g/cm ³
HR glass fibre percentage (in weight)	84 %
HR glass fibre percentage (in volume)	68 %
Thermosetting epoxy resin percentage (in weight)	16 %
Thermosetting epoxy resin percentage (in volume)	32 %
Number of bars per metre	Warp: 26
	Weft: 26
Nominal bar cross-section	Warp: 3,21 mm ² ± 5%
	Weft: 5,27 mm ² ± 5%
Tensile strength of impregnated mesh	1,85 kn
Moisture resistance after 1000 hours	Residue > 85%
Resistance to saline environments after 1000 hours	Residue > 85%
Resistance to alkaline environments after 1000 hours	Residue > 85%
Glass transition temperature Tg of the mesh	59,96° c

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.