

# MC-GlassGrid 350

High-strength glass fiber mesh for structural reinforcement of masonry and concrete structures



## PRODUCT PROPERTIES

- Light and easy to handle
- High durability and stability within the matrix
- It is easy to cut and adapt to the shape of the substrate
- Corrosion resistant
- Excellent tensile strength
- Minimal encroachment on the existing structure
- Stable and resistant to the chemical effects of cement

## AREAS OF APPLICATION

- Reinforcement of walls, beams, columns
- Structural reinforcement of arches and vaults
- Application on the outside and inside of the wall
- Improving the seismic resistance of buildings

## APPLICATION ADVICE

**Substrate preparation:** The substrate on which the MC-GlassGrid 350 is installed must be prepared according to the instructions below. When using for structural reinforcement of walls from the inside or outside, it is necessary to remove all worn-out plaster and all unstable parts. The substrate is cleaned by pressure washing or sandblasting until the elements that can threaten the adhesion of the new layer of mortar are completely removed. Before applying a new layer of mortar, the substrate must be moistened to prevent dehydration of the mortar.

**Application:** The first layer of MC-RockMortar L mortar is applied evenly on the substrate in a thickness of 5-6 mm. The application can be done manually (with a trowel) or mechanically (with a screw pump). MC-GlassGrid 350 glass mesh is pressed onto the first layer of fresh mortar, making sure that it is flat, impregnated and tight. The overlap of the net should be at least 30 cm. After installing the net, apply a second layer of mortar (fresh to fresh) in a thickness of 5-6 mm. After the second layer of mortar has been installed, it is necessary to remove the excess of the second layer of mortar in the places provided for the installation of anchors (MC-Connector) up to the mesh itself.

**Care and protection:** If the mortar is exposed to external influences, it must be protected from premature drying by applying wet jute or by using a paraffin-based dispersion such as Emcoril protect M.

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Fiber material	-	-	Glass fibers
Impregnation material	%	≥28	Styrene-butadiene
Base weight	g/m <sup>2</sup>	360	±5%
Mesh opening	mm	18,2	basis ±0,5
		18,2	weft ±0,5
Tensile strength	N/5cm	3.800	basis
		4.800	weft
E-Module	GPa	80	-
Equivalent thickness mm		0.049	basis
		0.049	weft

All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.

Packaging	Roll 50m <sup>2</sup> , 1 pallet (8 rolls)
Storage	Can be stored in the original sealed packaging at temperatures between 5°C and 30°C in dry conditions for at least 24 months.
Packaging disposal	-

### Safety instructions

Please note the safety information and advice given on the packaging labels and safety data sheets.

**Note:** The information contained in this data sheet is based on our experience and is correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual structure, to the specific application and to non-standard local conditions. Application-specific conditions must be checked in advance by the planning engineer/specifier and, where different from the standard conditions indicated, will require individual approval. Technical advice provided by MC's specialist consultants does not replace the need for a planning review by the client or its agents in respect of the history of the building or structure. Subject to this prerequisite, we are liable for the correctness of this information within the framework of our terms and conditions of sale and delivery. Recommendations of our employees deviating from the information given in our data sheets are only binding for us if they are confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be observed. The information given in this technical data sheet is valid for the product supplied by the country company listed in the footer. It should be noted that data in other countries may differ. The product data sheets valid for the relevant foreign country must be observed. The latest technical data sheet shall apply to the exclusion of previous, duly superseded versions; the date of issue in the footer must be observed. The latest version is available from us on request or may be downloaded from our website.