

FIBERGLASS MESH MONOSIS 160

Alkali-Resistant Fiberglass Mesh 160 g/m²

DESCRIPTION

The Fiberglass Mesh Monosis 160 alkali-resistant fiberglass mesh for coating of reinforcement is used to reinforce the base layer of Marmoline's MONOSIS external thermal insulation systems. It is suitable for application on insulating boards made of expanded polystyrene EPS (white or graphite), extruded polystyrene XPS or mineral wool MW.

It weighs 160 g/m², is resistant to alkalis and, due to its high flexibility, exhibits particularly good behavior in contraction and expansion.

The Fiber Glass Mesh Monosis 160 complies with EAD 040016-01-0404 (Glass fibre mesh for reinforcement of cement based renderings)

FIELDS OF APPLICATION

Fiberglass Mesh Monosis 160 is specially designed for application in external thermal insulation systems of buildings but is also suitable for other uses.

It can also be applied as reinforcement for the cementitious waterproofing coatings (Aquata FL and Aquata Elastic) and for the

reinforcement of interior or exterior coatings to prevent cracking.

It is suggested for the reinforcement of the base layer of the microcement system (Velvet Deco Superia) as well as for the application of anti-crack protection in bricks or aerated concrete (AAC) masonry.

Finally, Fiberglass Mesh Monosis 160 is used to reinforce cement-based mortars by application to the entire surface or locally to masonry connections (with floor or other masonry), to contact points of different materials as well as for local crack repairs.

CHARACTERISTICS/ ADVANTAGES

- Excellent workability – particularly flexible
- Clearly visible 10 cm marking (for overlapping of the glass mesh)
- High mechanical strength
- Resistant to alkalis
- Coated with a layer of SBR (styrene butadiene)
- Durable
- With use of a LENO type fabric, the 160 g/m² glass mesh gets increased flexibility and extends the life of the coatings it is used in.

PRODUCT INFORMATION

Composition	Alkali-resistant glass mesh for mortar/coating reinforcement
Color	White, with black Marmoline logo and black line, 10 cm from the edge of the glass mesh
Packaging	<ul style="list-style-type: none"> • 50 m²/roll • 33 rolls/box (pallet) • 1650 m²/box (pallet)
Storage conditions	It is recommended to store in a clean, dry place, at temperatures between -5°C and 30°C, protected from frost, direct radiation from any heat source or direct sunlight. The rolls should be placed vertically during storage and transport.

TECHNICAL CHARACTERISTICS

Weight	160 g/m ² (± 5%)	
Length	50 m ± 0,5 %	
Width	1 m ± 1 %	
Mesh opening (warp/weft)	4.5 x 3.5 ± 0.5 mm	
Minimum tensile strength (warp/weft)	2000 /3500 N/5cm	
Minimum tensile strength after alkali conditioning (warp/weft)	1900 /2500 N/5cm	(EAD 040016-01-0404)
Maximum elongation (warp/weft)	3.9 / 4.3 %	
Maximum elongation after alkali conditioning (warp/weft)	3.7 / 3.0 %	
Reaction to fire	F	

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

The substrate must be stable, solid, dry and free of dust, loosely adhering particles and all kinds of contaminants.

APPLICATION

Application of Base Coat & Embedding of Fiberglass Mesh:

Apply the first layer of proper mortar using a notched trowel (8 mm or 10 mm), ensuring a uniform thickness of 4-5 mm. Embed the Fiberglass Mesh Monosis 160 into the wet mortar, unrolling it from top to bottom. Press firmly with the smooth side of the trowel to fully embed it and cover it with an additional thin layer of mortar, so that the mesh gets in the middle of the thickness of the applied mortar and its holes are completely covered. The strips of fiberglass mesh must overlap by 10 cm for uniform distribution of stresses.

Flexible plastering system for aerated concrete (AAC) masonry:

After priming the surface with an acrylic primer (PAINT PRIMER MAX is recommended), a first layer of fiber-reinforced base coat (e.g. THERMOWHITE) is applied with a notched trowel (10 mm). Lay the Fiberglass Mesh Monosis 160 on the surface of the base coat, while unrolling it from top to bottom. Then, apply pressure to the mesh with the smooth side of the trowel to fully embed it in the base coat. Afterwards apply a new thin layer of mortar, using the smooth side of the trowel, to

completely cover the holes of the mesh. This ensures that the mesh is embedded in the middle of the thickness of the applied mortar.

TOOLS CLEANING

With plenty of water immediately after use. Hardened and/or cured material can only be removed by mechanical means.

LEGAL NOTES

The technical characteristics referred to in this data sheet are provided exclusively on the basis of information and declarations supplied by the product manufacturer.

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