PRODUCT DATA SHEET

FIBERGLASS MESH

Version, Penetron Hellas 18.01.2023

ALKALI-RESISTANT FIBERGLASS MESH FOR CEMENTITIOUS SURFACE PLASTERS

PENETRON® ADVANCED WATERPROOFING & PROTECTION SYSTEMS

DESCRIPTION

FIBERGLASS MESH is used as reinforcement in the SEALCOAT™ Systems, repairing/decorating mortars, (PENETRON® MULTI PATCH, PENETRON® TOP FINISH FINE etc.), coatings, plasterboards and cement boards, to avoid cracking and increase mechanical stress resistance. Alkali resistant material.

RECOMMENDED FOR

FIBERGLASS MESH can be used as cement-based mortars' reinforcement. It can be applied on the entire area or locally:

- Wall-floor connections
- Wall-wall connections
- Around pipe outlets, waterspouts (siphon) and chimney stacks
- Floors, underlayment floors and cement
- Various materials connections

ADVANTAGES

- Easy to apply. Ready to use.
- Flexible.
- Aging resistance.
- Small dimension (5,1 x 4,2 mm) to increase the mechanical strength.
- Low weight.

TECHNICAL CHARACTERISTICS

Characteristics	Test Result	Test Method
Type	Alkali-resistant Fiberglass Mesh	-
Colour	White	-
Length	50 m (±1%)	Manufacturer's declared value (MDV)
Width	100 cm (±1%)	EAD 040016-00-0404, 2.2.5
Mesh size (MD/CMD – warp/weft)	(5,1 x 4,2) ±0,5 mm	EAD 040016-00-0404, 2.2.4
Mesh opening (MD/CMD – warp/weft)	(3,9 x 3,8) ±0,5 mm	EAD 040016-00-0404, 2.2.4
Weaving accuracy	pass	EAD 040016-00-0404, 2.2.6
Treated fabric weight	160 g/m^2 (±5%)	EAD 040016-00-0404, 2.2.8
Thickness	0,43 (±0,02) mm	EAD 040016-00-0404, 2.2.9
Reaction to fire	NPD	EAD 040016-00-0404, 2.2.1, EN 13501-1
Organic content	20% (± 4%)	EAD 040016-00-0404, 2.2.2
Average calorific value	6,61 MJ/Kg; 1,05 MJ/m^2	EAD 040016-00-0404, 2.2.3 EN ISO 1716
Average tensile strength (MD/CMD – warp/weft)	>2000 N/5 cm / >2000 N/5 cm	EAD 040016-00-0404, 2.2.7 (ETAG 004, 5.6.7.1.1)
Elongation (MD/CMD – warp/weft)	<4,5% / <4,5%	EAD 040016-00-0404, 2.2.7 (ETAG 004, 5.6.7.1.1)
Average tensile strength after ageing (MD/CMD – warp/weft)	>1000 N/5 cm / >1000 N/5 cm min 50% / min 50%	EAD 040016-00-0404, 2.2.7 (ETAG 004, 5.6.7.1.2)
Elongation after ageing (MD/CMD– warp/weft)	<3,5% / <3,5%	EAD 040016-00-0404, 2.2.7 (ETAG 004, 5.6.7.1.2)

All data are average values obtained under laboratory conditions. Impractical use, temperature, humidity and absorption of the substrate may influence the above given values.

DIRECTIONS FOR USE

Surface Preparation: The surface needs to be clean and sound, free of any contamination, which may harmfully affect the adhesion of the coating. The surface must also be thoroughly cleaned from water puddles, prior to application. Old coatings, dirt, fats, oils, organic substances and dust need to be removed by a grinding machine. Any loose surface pieces and grinding dust need to be thoroughly removed.

NOTE: The surface preparation is very important for optimum result and high durability.

Application: FIBERGLASS MESH can be applied in the following cases:

Reinforcement in the SEALCOAT™: Apply the first layer of SEALCOAT™ FLEX or SEALCOAT™ ELASTIC by brush, filling the pores, holes and gaps on the surface. In continue, apply the FIBERGLASS MESH in the fresh layer of SEALCOAT™ Systems, until it gets stick in the surface. The next day, apply the second layer of SEALCOAT™ Systems, perpendicular to the first layer, until it covers the FIBERGLASS MESH.

Cement mortars and underlayment reinforcement: Surfaces must be saturated with water, without any standing or puddled water. If needed, apply a primer, i.e. PENETRON® ACRYLIC BONDCRETE™ (roller or brush), to enhance bonding properties, before PENETRON® MULTI PATCH application. apply the fresh mortar on the repairing surface, immediately after mixing, using a trowel or a metallic spatula, holding the PENETRON® MULTI PATCH steadily on the surface to achieve better bonding with the substrate. Apply FIBERGLASS MESH on the surface and add a small quantity of PENETRON® MULTI PATCH on the surface, after the first layer, using a trowel or a metallic spatula, and squeeze the mortar from the center to the edges of the repairing surface, for a better finishing and cover the Fiberglass mess.

NOTE: The application of FIBERGLASS MESH can increase the consumption of SEALCOAT™ Systems, PENETRON® MULTI PATCH, etc.

SPECIAL CONSIDERATIONS

Careful compliance with the time margins is essential for an excellent result.

Contact PENETRON HELLAS S.A. for further information, regarding your project.

PACKAGING

FIBERGLASS MESH is available in rolls of 1m x 50m=50m^2.

STORAGE / SHELF LIFE

Packed rolls are to be stored in dry rooms, protected against UV and heat, practically packed in plastic foil, vertically in cardboard box, on a wooden pallet. The temperature of storing shall be between -10°C and +40°C.

SAFE HANDLING INFORMATION

KEEP OUT OF REACH OF CHILDREN. For further information please refer to Safety Data Sheet. PENETRON HELLAS S.A. has recently updated Safety Data Sheet on the safe use of PENETRON® products. Each Safety Data Sheet contains health and safety information for the protection of your employees and your customers.

WARRANTY - DISCLAIMER

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