BOLIX HD 158/S

Alkali Resistant Fibreglass Mesh

PRODUCT DESCRIPTION:

- alkali resistant
- flexible
- rigid weave
- high weight per square metre 158 g/m^2

USE:

- to reinforce base coats in ETICS external wall insulation systems,
- optionally, to reinforce levelling compounds applied to mineral surfaces, including adhesive for embedding fibreglass mesh (such as BOLIX U)
- reinforcement for the BOLIX thick bituminous coatings providing heavy duty waterproofing,
- additional reinforcement of waterproof membranes

SUBSTRATE PREPARATION:

Prior to glass fibre reinforced base coat in ETICS

After min. 48h (applies when the BOLIX adhesives were used) from attaching the EPS boards, sand with coarse sandpaper or an abrasive rasp and remove the sanding dust. Apply a filler over the washer plates of mechanical fixings. Install corner trims or beads, window profiles, movement beads, diagonal mesh strips at the corners of door and window openings using a base coat/adhesive for embedding fibreglass mesh (such as BOLIX U) and allow to dry. Make sure that the installed insulation boards are flush to provide even and continuous surface. Fill any interstices or gaps between insulation boards with polystyrene wedges matching coat thickness or low-pressure installation foam BOLIX PM-L or BOLIX ZP.

NOTICE: *Do not leave polystyrene boards exposed to UV for an extended period of time as it may destroy their surface and reduce the bond strength of adhesive. If a powdery yellowish deposit appears on the surface of insulation boards or the boards are exposed to sunlight for more than 7 days, they need to be sanded and cleaned of the dust.*

APPLICATION:

Base coat and embedding mesh in repairing and decorative renders

Use a notched trowel (8-10 mm notch size) to apply a continuous layer of the adhesive over the insulation boards to a uniform thickness of approx. 3-4 mm and immediately embed the mesh BOLIX HD 158/S into the adhesive so that it is evenly stretched and fully embedded in adhesive. Adjacent mesh strips should overlapped not less than 10 cm at mesh seams. The base coat surface should be even and smooth with no reinforcing mesh fabric visible. If not, once the first coat has dried, apply a second thin coat (approx. 1mm thick) of the adhesive to smooth and even the surface. Base coat thickness should be between 3 – 5 mm.

The areas, which are susceptible to mechanical damage (especially plinth and ground area) should have double mesh reinforcement embedded in the base coat, placed in opposite directions towards each other. Alternatively, the armour mesh strips BOLIX HD 335/P can be applied in the first layer, which must butt joint and not overlap. The armour mesh cannot be lapped over corners. Embed the subsequent meshes wet-on-wet. Reinforced base coat thickness for this solution should be between 4 – 6 mm.

The width of the BOLIX HD 158/S reinforcing mesh should be selected to ensure that window and door reveals are reinforced in their entire depth. The mesh can be cut on the corners only when corner beads with mesh are used. The mesh must have the weight not less than 145g/m2 and be sufficiently wide to ensure 10 cm overlaps. Allow the reinforced base coat to dry for at least 48 h.

To prepare the surface and apply meshes in the waterproof membranes bitumen waterproofing coatings, follow the technical data sheets pertinent to these products.

LIMITATIONS AND RECOMMENDATIONS:

- Follow the instructions and guidelines provided in the technical data sheets of the products with which the reinforcing mesh BOLIX HD 158/S will be used.

TECHNICAL DATA:

Type of weave:
gauze

Length:
≥ 50 m

Width:
1.1 m (±10%)

Colour:
Orange

Mesh size:
4.0 x 4.6 mm (±0,5)

Mesh size in light (mesh opening):
3.5 x 3.8 mm (±0,5)

Weight:
160 g/m^2 (±10)%

Ash content:
80,0 (±4) %

Organic matter content
20,0 (±4) %

Tear strength in warp and in weft direction, N/mm, tested on samples stored for 28 days in:
- laboratory conditions: ≥ 1900 N / 50 mm
- 5% NaOH solution: ≥ 1000 N / 50 mm

relative elongation at break in warp and in weft direction, %, tested on samples stored for 28 days in:
- laboratory conditions: < 5.0 %
- 5% NaOH solution: < 3.8 %

Packaging:
roll: 50 m

No. of containers per pallet:
33 rolls

NOMINAL COVERAGE:

≥1.1 m^2 mesh / 1 m^2 surface

STORAGE:

Store on its roll in intact containers and temp. between +5°C and +50°C. Protect from being crumpled, wrinkled or creased. Store away from the reach of children.

COMPOSITION:

Glass fibres coated with alkali resistant dispersion.

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