REINFORCING MESH

DS413

Glass Fiber Mesh For Reinforcing Dryvit Base Coats

Description
Specially woven and treated glass fiber mesh is used with Dryvit base coats to provide strength and impact resistance. Strength and durability are a direct result of the weight of the mesh specified.

Uses
When embedded in the Dryvit base coat mixture, the glass fiber reinforcing mesh provides continuity of surface to resist cracking and to increase impact resistance. The following guidelines are suggested:

Panzer® 20: A 20.5 oz/yd^2 (695 g/m^2) mesh recommended for all ground floor and high traffic area applications. (Must be installed under Standard Plus or Standard Mesh).

Panzer® 15: A 15 oz/yd^2 (509 g/m^2) mesh recommended for all ground floor and high traffic area applications. (Must be installed under Standard Plus or Standard Mesh).

Intermediate: A 12 oz/yd^2 (407 g/m^2) mesh recommended for the second story and above where a medium amount of traffic is anticipated, i.e., walkways, balcony areas, etc.

Standard Plus: A 6 oz/yd^2 (203 g/m^2) mesh recommended for the second story and above where added protection from such things as window washing equipment, ladders, etc. is desired.

Standard: A 4.3 oz/yd^2 (146 g/m^2) mesh recommended for all applications where no abuse from people, machines, window washing equipment, etc. is anticipated, typically second story areas and above.

Detail Mesh® Short Rolls: A 4.3 oz/yd^2 (146 g/m^2) mesh available in 9 1/2 in (241 mm) widths. It is recommended for special shapes and irregular detail work.

Corner Mesh™: A 7.2 oz/yd^2 (244 g/m^2) mesh recommended for additional impact resistance and for clean, crisp arises; outside corners; and prefabricated panel edges. (Must be installed under Standard Plus or Standard Mesh).

Coverage
The reinforcing meshes (except Panzer 15 and 20) are lapped a minimum of 2 1/2 in (64 mm) at all edges. The edges of Panzer 15 and 20 Mesh are abutted tightly. A layer of Standard or Standard Plus Mesh must be applied over the entire wall using published application methods when using Panzer 15 and 20 Mesh. Roll dimensions are as follows:

Panzer 15: 48 in wide x 75 ft (1219 mm wide x 23 m) [300 ft^2 (28 m^2)]

Panzer 20: 48 in wide x 75 ft (1219 mm wide x 23 m) [300 ft^2 (28 m^2)]

Intermediate: 48 in wide x 75 ft (1219 mm wide x 23 m) [300 ft^2 (28 m^2)]

Standard Plus: 48 in wide x 150 ft (1219 mm wide x 46 m) [600 ft^2 (56 m^2)]

Standard: 48 in wide x 150 ft (1219 mm wide x 46 m) [600 ft^2 (56 m^2)]; 72 in wide x 150 ft (1800 mm wide x 46 m) [900 ft^2 (84 m^2)]

Detail Mesh: 9 1/2 in wide x 150 ft (241 mm wide x 46 m) [119 ft^2 (11 m^2)]

Corner Mesh: 9 1/4 in wide x 150 ft (235 mm wide x 46 m)

Application Procedure
Prior to base coat/reinforcing fabric application, all insulation board irregularities greater than 1/16 in (1.6 mm) must be sanded flush. Apply the base coat to the entire surface of the insulation board. Fully embed the reinforcing fabric in the wet base coat troweling from the center to the edge of the reinforcing fabric so as to avoid wrinkles. The reinforcing fabric shall be continuous at all corners and lapped or butted in accordance with Dryvit's recommendations. The overall minimum base coat thickness shall be sufficient to fully embed the mesh. The recommended method is to apply the base coat in two applications. All areas requiring higher impact performance shall be detailed on the plans. The applications shall be installed in accordance with Dryvit's recommendations.

When using Panzer 15 or 20 Mesh, apply the Dryvit base coat mixture to the entire surface of the insulation board at a uniform thickness not to exceed 1/8 in (3.2 mm). Immediately embed the Panzer Mesh into the wet mixture working from the center to the edges until the mesh is fully covered and not visible. Edges of adjacent Panzer Mesh pieces shall be tightly butted but not overlapped. After it cures (minimum 24 hours), examine for projections and correct them as necessary to produce a flat surface. A layer of Standard or Standard Plus Mesh shall be installed as described in the first paragraph.

Special Conditions and Recommendations
- All areas requiring an impact resistance higher than "standard," as defined by ASTM E 2486 (formerly EIMA Standard 101.86), shall be as detailed in the drawings and described in the contract documents.
- All edges of the insulation board at bottom and top of walls and at all openings must be wrapped with reinforcing mesh.
- The reinforcing mesh may be wrapped from the front side onto the studs at an opening or panel edge or the mesh may be attached to the substrate and wrapped onto the face of the insulation board from behind. Remember, all insulation board edges must be covered with the Dryvit base coat.
- It is recommended that the inside curl of the mesh be applied toward the face of the wall for easier application.
- When covering Panzer 15 or 20 Mesh, the 2 1/2 in (64 mm) lap of Standard or Standard Plus Mesh should not occur over the abutment of the two pieces of Panzer Mesh.
- Water vapor transmission analysis is recommended by Dryvit Systems, Inc. when over 50% of the total Dryvit wall area, within a given building story, utilizes Panzer 15 or 20 Mesh.

Technical and Field Services
Available on request.

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For more information on Dryvit Systems or Continuous Insulation, visit these links.