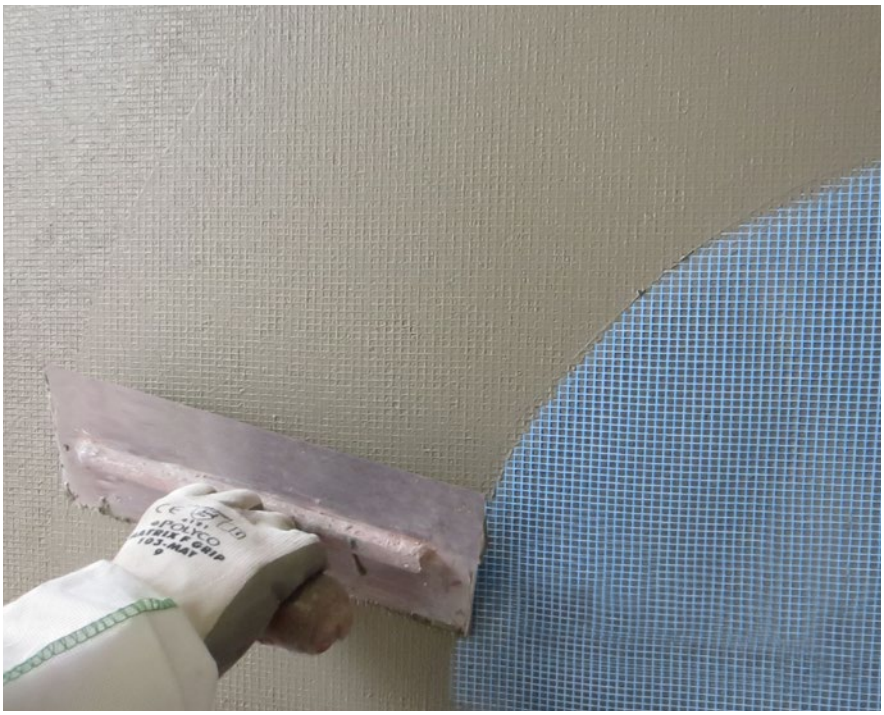
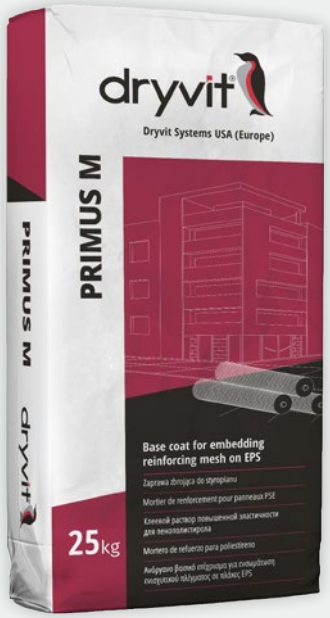
PRIMUS M

DS.EN.04.50.02

Polymer modified cementitious base coat for embedding Dryvit reinforcing mesh





PRODUCT DESCRIPTION

Primus M is a ready to use polymer modified cementitious powder requiring the site addition of potable water to produce a high performance base coat for embedment of reinforcing mesh in the Dryvit Drysulation system. The product has been formulated to have excellent workability and open time properties and is available in grey and white cement versions.

FEATURES & BENEFITS

FEATURE	BENEFIT
• Polymer modified	Excellent adhesion to EPS
• Hydrophobic additives	No primer required
• One part product	Just measure water, add and mix
• Special filler blend	Excellent trowelling properties

TYPICAL SUBSTRATES

- Dryvit Standard EPS (White)
- Dryvit LL EPS (Grey)

USES

As a base coat for the embedment of reinforcing mesh on EPS insulation boards as part of the Dryvit Drysulation system.

PACKAGING

Primus M grey and white 25 kg moisture resistant bags.

COVERAGE

3.0-3.5 kg/m^2 for embedding Standard Plus Meshes.
5.0-5.5 kg/m^2 for embedding of Panzer 500 and Standard. Plus 150 mesh.

Note: The actual yield per bag will depend on the consistency of material mix and application thickness.

SPECIFICATION

Specification clauses relating to this product can be found in NBS sections M21 Insulation with Rendered Finish. Please consult Dryvit UK Ltd.

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SUBSTRATE PREPARATION

Prior to starting reinforcing mesh embedment, the surface of the EPS boards shall be inspected for surface degradation (discolouration) due to weathering and flatness using a minimum 2.4 m straight edge. Rasp any visible discolouration, irregularities or out-of-plane board joints to provide a uniform and smooth surface. All EPS dust and loose beads shall be removed prior to base coat application.

MIXING

Carefully measure 5.5 – 6.0 litres of water into a plastic bucket for one 25 kg bag of Dryvit Primus M. Slowly add powder and using a slow speed drill (400–500 rpm) and paddle mix for 5 minutes until homogeneous. Allow to stand for 5 minutes then re-mix. The base coat may stiffen on standing. Re-mix the product to regain a workable consistency, but DO NOT add more water.

APPLICATION METHOD

Standard Plus and Intermediate Meshes

Using a stainless steel trowel, apply the mixed Primus M on the entire surface of the insulation board to an area slightly larger than the width and length of a piece of reinforcing mesh, in a uniform thickness of 1.5 mm. The reinforcing mesh may be installed either vertically or horizontally. Immediately place the reinforcing mesh against the wet Primus M mixture and with the curve of the mesh against the wall, trowel from the centre to the edges avoiding wrinkles, until the mesh is fully embedded and not visible. Trowel smooth to a uniform thickness slightly more than the thickness of the reinforcing mesh. Allow this layer to take up until firm to the touch and then trowel a second tight coat over the first to fully cover the reinforcing mesh. The result should be such that the reinforcing mesh is approximately centred within the base coat thickness. Do not allow the first pass to completely dry prior to the second pass application or an excessive amount of Primus M will be necessary to fully coat the wall surface.

Note: The reinforcing mesh shall be continuous at corners and mesh edges lapped not less than 65 mm. Do not lap the reinforcing mesh within 200 mm of a corner.

Panzer Meshes

Using a stainless steel trowel, apply the mixed Primus M on the entire surface of the insulation board to an area slightly larger than the width and length of a piece of reinforcing mesh, in a uniform thickness of 3.0 mm. Immediately place the reinforcing mesh against the wet Primus M mixture and with the curve of the mesh against the wall, trowel from the centre to the edges avoiding wrinkles, until the mesh is fully embedded and not visible. Continue in the same manner until the entire area requiring Panzer mesh is covered. Caution: Do not lap the Panzer mesh. Adjacent pieces are to be tightly butted. Allow the Panzer base coat to cure a minimum of 24 hours prior to applying one of Dryvit's Standard Plus reinforcing meshes, see application instructions above.

For more details refer to the Dryvit reinforcing mesh data sheet and to Drysulation Application Instructions.

DRYING TIME

Prior to finish application leave approx. 24 h, at +20°C and 55% relative humidity. Drying time at lower temperatures or higher relative humidity, in particular during autumn and winter months, may be significantly longer.

STORAGE

When stored in a dry place at temperatures above +5°C shelf life is 6 months from the date of manufacture. Protect against moisture and direct sunlight.

CAUTION AND LIMITATIONS

Apply in dry conditions. At time of application and for the following 24 hours air and substrate temperatures must not drop below + 5°C or rise above + 30°C. The product must be protected against direct sun and windy conditions so sheeting the façade or the scaffold is advised to achieve this. Surrounding windows, window cills, etc. must be properly protected during application and early curing.

In common with all cementitious based materials, in cool damp or high humidity conditions surface efflorescence can occur which requires removal before applying primers or finish. Special care should be taken when applying Primus M white in conditions likely to promote efflorescence as it too is white and not readily visible. Refer to the latest Dryvit Technical Note on Winter working - Efflorescence for information on detection and removal.

CLEANING

All equipment must be washed with clean water immediately after use. Disposal must be in accordance with local and national legislation and must not be emptied into drainage systems.

HEALTH AND SAFETY

Primus M contains cement powders that when mixed with water or become damp release alkalis that can irritate the skin and eyes. Dust is harmful by inhalation.

Wear suitable protective clothing, eye protection and dust mask. The use of barrier creams provides additional skin protection. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water.

DISPOSAL

Primus M is not listed as dangerous waste, but must be disposed of in accordance with local and national legislation. The European waste code for Primus M is 10 13 11. Fully cured material is not considered as hazardous waste.

FIRE

Primus M grey and white are non-flammable.

FURTHER INFORMATION

Refer to Drysulation Application Instructions and the product Safety Data Sheet.

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