Premix Plaster HS

High-strength rendering / plastering mortar

Uses

- Ideal for polystyrene sandwiching and paneling.
- Ideal for large vertical and overhead structural repairs.
- To support columns and beams.
- It is ideal for new construction projects.

Product Description

Premix Plaster HS is a single-component, polymer-modified, fibered cementitious plastering / rendering mortar. The high-strength product is ready to use (this only requires adding water on site) and it can be applied manually and using a plastering machine.

Once mixed, it becomes a pumpable, sprayable plastering mortar designed specifically for reinforced EPS paneling systems (to replace the traditional masonry and/or concrete construction). Premix Plaster HS is composed of a blend of hydraulic cement, carefully selected and graded aggregates, fibers, and special additives (which give it its unique properties).

Advantages

- Easy to use (a single-component product).
- High physical and mechanical properties.
- Extremely low permeability (it provides reinforcement protection against corrosion and resists ingress of contaminants).
- Multi-directional reinforcement (this ensures high cohesion and decrease potential cracking due to environmental reasons).
- Non-shrink properties (this ensures the stability of dimensional repairs).
- Suitable for internal and external applications.
- Thixotropic properties (this allows a high build-up in vertical and overhead repairs).
- Very low sag.

Standards Compliance

- BS EN 998-1 : CS IV
- ASTM C926

Technical Data

Premix Plaster HS	Typical Values @ 25 °C & 17% W/P
Appearance	Granular Gray
Maximum Aggregate Size (mm)	2.4
Pot Life (Hours)	1.5
Setting Time (Hours)	4 - 5
Mixed Density (kg/liter)	1.9 Approx.
Dry Bulk Density (kg/liter)	1.5 Approx.
Water Penetration - DIN 1048 (mm)	< 5
Drying Shrinkage @ 28 days ASTM C157 (%)	< 0.08
Flexural Strength - EN 1015-11 @ 28 day (MPa)	≥ 5
Tensile Strength - ASTM C307 @ 28 day (MPa)	≥ 2
Compressive Strength - EN 1015-11 @ 1 day (MPa) @ 14 day (MPa) @ 28 day (MPa)	 ≥ 8 ≥ 14 ≥ 25
Adhesion Strength - EN 1015-12 (MPa)	> 0.8
Capillary Water Absorption EN 1015-18 ($kg/m^2\ min^{0.5}$)	≤ 0.25
Reaction to Fire - EN 13501-1	Class A1
VOC Content - ASTM D2369 (gm/liter)	< 10 (LEED Compliant)

Usage Instructions

Surface Preparation

All surfaces should be sound, clean, and strong enough to receive the material. When using EPS panels, the reinforcement should be fixed tightly (make sure it's fixed within the recommended distance for the panel to carry the high-build Premix Plaster HS). For new construction, prepare a steel reinforcement and pump the material until the desired thickness is reached. Use a suitable pneumatic pump (with high to medium pressure).

Priming

Generally, no priming is needed for this product. However, it is a must for panel steel connections and columns (in this case, use Vetoprime CP436 to enhance the adhesion and to protect the steel). For new construction, clean all the substrates and steel reinforcements from dirt, rust, and anti-adhering materials.

Mixing

To ensure mixing the material properly, use a mechanically powered mixer or a drill fitted with a suitable paddle. Add 8.5 - 10.5 liters of clean water to a clean container. Then slowly add the powder to the water while mixing continuously with a low-speed mixer/drill (400 - 600 rpm). Continue mixing until a uniform consistency is achieved.

For large quantities, use a large mechanical drum mixer (Add enough water to fill 2/3 of the mixer capacity). While mixing, add the powder and then gradually add the rest of the water until the desired consistency is achieved. When using a plastering machine, adjust the water flow-meter to range between 480 - 600 liter/hour.

Keep the machine always full to maintain the correct water:powder ratio.

Placing and Finishing

You can either apply Premix Plaster HS manually or use a plastering spray machine.

To ensure good adhesion with the steel reinforcement and/or the substrate you're working with, you must first level the surface using an aluminum rod or a steel trowel. Then, finish the applied material surface within one hour (as the material sets faster than regular plasters and renders).

Curing

Premix Plaster HS is a cementitious material; therefore, cure it similarly to concrete (by continuous watering and by covering the surface with polyethylene sheets if possible).

Cleaning

Clean tools and equipment with fresh water immediately after use. Remove hardened material mechanically.

Packaging & Coverage

Product	Pack Size	Yield
Premix Plaster HS	50 kg Bag	≈ 31 Liters / bag

Stated consumption data are for general guidance. Actual consumption depends on the nature of substrate, method of application, and wastage.

Shelf Life & Storage

The original sealed bag of Premix Plaster HS has a shelf life of 12 months, provided it's stored clear off the ground, in a dry and shaded place, & at a temperature between 5 and 35°C.

Limitations

Apply Premix Plaster HS in a single application for sections up to 20 mm thick (in overhead applications).

Health & Safety

Premix Plaster HS contains resins (which may cause sensitization if they come in contact with your skin). Avoid contact with your skin and eyes, and also avoid inhaling vapors. Wear suitable protective clothing, gloves, and eye/face protection. Barrier creams provide additional skin protection.

Should accidental skin contact occur, remove immediately with a resin removing cream, followed by soap and water. Do not use solvents. In case of contact with your eyes, rinse immediately with plenty of clean water, and seek medical attention. If swallowed, seek medical attention immediately. Do NOT induce vomiting.

Premix Plaster HS is non-flammable.

Additional Information

Saveto manufactures a wide range of construction chemicals and specialty products for various applications.

For further information on these products and systems kindly check our website or contact your local Saveto representative.