



GYPSO Render

Energy Saving, Eco-friendly

Gypsum-based Render

Uses

- Applied as final render coat for internal walls and ceilings
- Thermal insulation of residential and industrial concrete buildings.
- Save energy consumption related to heating and cooling
- Used for internal dry conditions on concrete, brick, masonry, block walls, rough surfaces, gypsum block walls or panel walls

Product Description

GYPSO Render is a by-product, gypsum-based render for internal walls that is applied as the finishing coat onto a new or existing building in a single operation, that results in a monolithic surface with excellent compressive strength and is resistant to cracking as well as having outstanding fire, thermal, acoustic and seismic qualities.

Advantages

- ✓ Excellent thermal insulation properties
- ✓ Contains unique organic, mineral-based, binding agent to form a very robust and crack resistant render
- ✓ Excellent adhesion/bonding strength
- ✓ Excellent fire-resistant qualities
- ✓ High impact and high strength
- ✓ Monolithic - No joints crack resistant
- ✓ Excellent seismic properties
- ✓ Easy application with uniform work flow enables high productivity & superior finishing
- ✓ Short curing (setting) time - reduces build time.
- ✓ Reducing water absorption
- ✓ Green product with energy saving properties

Standard Compliances

- ▶ BS EN 1015
- ▶ BS EN 13279
- ▶ HKHAMTS

Technical Data

Properties	Test Results
Compressive Strength	20 N/mm ² @ 28 Days
Flexural Strength	4.4 N/mm ² @ 28 Days
Bond Strength	0.9 N/mm ² @ 28 Days
Shrinkage	NIL
Thermal Conductivity	≈0.18W/m.K
Wet Density	1,930 kg/m ³
Dry Density	1,730 kg/m ³
Recommended Application Thickness	5 - 25 mm for 1 coat 25 - 50 mm for 2 coats
Pot Life	≤ 60 minutes
Setting Time	4 - 8 hours
Water Demand	Approximately 8 - 9 L / 40 Kg bag
Mixing (Electric mixer)	2 - 3 minutes
Coverage	Approximately 1.7 – 1.8 Kg/m ² /mm

Usage Instructions

Surface Preparation

- Substrate should be sound, clean, free from loose material, grease, laitance, dirt curing compound, etc.
- Prior to GYPSO Render, wet the entire surfaces with clean potable water and surface should look damp at the time of GYPSO Render application.

Mixing

- Add to the mixing container 8 - 9 liters of water for each 40 Kg bag of GYPSO Render.
- Add the GYPSO Render to the water and mix with a mechanical plaster mixer or low speed electric drill fitted with a suitable paddle for 2 - 3 minutes, until a uniform, lump free consistency is achieved.

Smooth Concrete Surfaces

Apply GYPSO Bond or spatterdash prior to GYPSO Render application.

Application

- GYPSO Render can be applied in a single or multiple coats on surfaces to achieve desired thickness 5 - 50 mm.
- Apply the mixed material by hand trowel or spraying machine to required thickness. Each application should not exceed 25 mm for single coat or 5 - 25 mm each coat for multiple layers.
- For second layer, all the first layer to partially set for 60 - 90 minutes depending on weather condition, then apply the second layer as described above.
- Spray water onto the surface if second layer is to be carried out next day.

**Work should be prohibited if temperature below 5°C, rainy or snowy day or during high wind speeds.

**This product is for indoor dry area use only.

Curing

Natural air cure is sufficient except under extremely hot and dry condition, water spray may be needed.

Disclaimer

The information and physical data in this brochure are based on our best knowledge under standard testing methods and controlled environments. However, please be aware that results may vary due to factors beyond our control, such as weather conditions, site conditions, workmanship, or substrates. This Technical data sheet is intended for general guidance only, and we cannot provide a warranty for the ultimate performance and application results of these materials if they are not kept, mixed, applied, or cured strictly according to the requirements and instructions outlined in this brochure or in other supplementary documents.

Packaging

Product	Pack Size
GYPSO Render	40 Kg Bag

Shelf Life & Storage

The original sealed bag of GYPSO Render has a shelf life of 8 - 9 months provided that it is stored in a dry shaded place below 25°C and clear of ground.

Limitations

- Do not mix with any additives or products, unless recommended by GYPSO.
- Make sure the substrate is suitable for plaster application. In case of doubt, try on sample area to assess its suitability.
- Do not apply the product at temperature lower 5°C. During summer seasons, the working area must be covered to prevent ill-effects from direct sun and also excessive air-draught during initial curing stage.
- Tools should be cleaned with water before the mortar hardens. After the hardening, its residuals can be removed mechanically only.

Health & Safety

- GYPSO Render is a powder-based material that may form an alkaline solution, therefore avoid direct contact with eyes or skin.
- It is recommended to use protective gloves and goggles during application. Any skin contact should be washed with soap & water.
- In case of eye irritation, immediately washed with copious amount of cold water. Seek medical advice.

For further information, please refer to material safety data sheet.