

# THERMAL INSULATION



## Cool Plaster

Advanced modified cementitious thermal insulating plaster

### Uses

- Thermal insulation of residential and industrial concrete buildings.
- Save energy consumption related to heating and cooling.
- Internally or externally in wet & dry conditions onto block walls & rough surfaces.

### Product Description

Cool Plaster is a blend of OPC, graded sand, and lightweight aggregates plus functional additives for enhancing workability and adhesion. Cool Plaster is applied on all surfaces after the proper preparation of the surface primed using the Saveto Spatter Dash product range (depends on the substrate). The product provides thermal insulation for building wall sections relying on advanced material technologies.

### Advantages

- Excellent thermal insulation properties.
- It contains a special additive that reduces friction and prolongs the lifespan of the equipment.
- Factory controlled pre-blend ensures consistently high quality.
- Requires only the addition of water on-site at the time of usage.
- Uniform color/mass.
- Improved workability & curing.
- Easy application with uniform workflow enables high productivity & superior finishing.
- Strong adhesion on a variety of substrates.
- Internal & external applications.
- Shrinkage control reduces surface cracks.
- Suitable for humid & dry conditions.

### Standards Compliance

- BS:EN 998-1 CS II, Wc1,T2
- Cement type: ASTM C150, type 1

### Technical Data

Cool Plaster	Typical Values @ 25°C
Appearance	Grey Granular Powder
Dry Density (g/ltr)	900 ± 50
Hardened Density (g/ltr)	1000 ± 50
Recommended Application Thickness (mm)	25 - 50
Pot life (Minutes)	90
Setting Time (Hours)	4 - 6
Water Demand (By Weight % )	32 - 35
Compressive Strength @ 28 Days BS:EN 1015-11 (N/mm <sup>2</sup> )	> 3.5
Bond Strength @ 28 Days BS: EN 1015 - 12 (N/mm <sup>2</sup> )	> 0.3
Thermal Conductivity EN 1745 (W/m.K)	≤ 0.2

## Usage Instructions

### Surface Preparation

The substrate should be sound, clean, free from loose material, grease, laitance, dirt curing compound, etc.

Wet the entire surface with clean water before the Cool Plaster application to neutralize the substrate suction. The surface should look damp at the time of the Cool Plaster application.

### Mixing

Add to the mixing container 7-8 liters of water for each 22kg bag of Cool Plaster. Add the powder to the water while mixing with a mechanical plaster mixer or low-speed electric drill fitted with a suitable paddle until achieving a uniform, lump-free consistency.

Manual mixing is allowed for small batch quantities, mixing the whole bag with water for approximately 1-2 min or achieving a homogeneous mix.

for plastering Machine application, the water flow to be adjusted to the desired consistency (about 700-850 Lit/hr.)

### Smooth Concrete Surfaces

Apply Saveto Spatter Dash product (type depends on the substrate) before the Cool Plaster application on smooth concrete surfaces.

### Application

Apply Cool Plaster on the substrate in single or double coats, to achieve the desired thickness.

Apply the mixed material manually or by the plastering machine. Press the mixed material hard against the surface. Rod or screed Cool Plaster to reach the desired uniform thickness, not exceeding 25mm for a single coat or 25mm for each coat for multiple layers.

For the second coat application, allow the first layer to initially set for 60-120 min, depending on weather conditions, then apply a second layer as described above.

Spray water onto the surface if the second layer is to be carried out the next day.

### Curing

Cool Plaster is best cured by spraying water every 12 hours evenly on the applied material surfaces for a minimum of 3 days. During hot & dry conditions, allow curing for a minimum of 5 days. It will help to obtain high mechanical strengths.

### Legal Disclaimer

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Hard copies of TDSs are printed once or twice a year. Our technical data sheets are continuously updated as per R&D improvements and new 3rd party testing; kindly refer to our website for the latest updated TDSs.

### Cleaning

Clean tools with water before the mortar hardens. After the hardening, remove the residuals mechanically only.

## Packaging & Coverage

Product	Pack Size	Yield
Cool Plaster	22 kg Bag	≈ 22 lit wet/22kg dry bag

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

### Shelf Life & Storage

The original sealed bag of Cool Plaster has a shelf life of 12 months, provided it is stored clear of ground in a dry, shaded place below 35°C.

### Limitations

- Do not mix with any additives or products unless recommended by Saveto.
- Make sure the substrate is suitable for the plaster application. In case of doubt, try on the sample area to assess its suitability.
- Do not apply the product at a temperature of less than +5°C. During the summer season, cover the working area to prevent ill effects from direct sun and form excessive air-draught during the initial curing stage.

### Health & Safety

Cool Plaster is highly alkaline; therefore, avoid direct contact with eyes or skin. It is recommended to use protective gloves and goggles during application. Any skin contact should be wash with soap & water. In case of eye irritation, immediately wash with a copious amount of cold water. Seek medical advice.

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

### 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.