



# Vetotherm 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

Vetotherm Plaster is blend of OPC, silica sand and graded light weight aggregates plus functional additives for enhancing Workability and adhesion. It can be applied on all surfaces after the proper preparation of the surface .The product provides thermal insulation for building wall sections relying on advanced material technologies.

## Advantages

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

## Standards Compliance

- BS:EN 998-1 CSIII, W0, T1
- Cement type: ASTM C150, type1.
- ASTM C518

## Technical Data

| Vetotherm Plaster                     | Typical Values @ 25°C  |
|---------------------------------------|--|
| Appearance                            | Grey Granular Powder   |
| Dry Density                           | 450 ± 50 g/Liter   |
| Hardened Density                      | 650 ± 50 g/Liter   |
| Recommended Application Thickness     | 25 - 100 mm,<br>@ 50 mm (R value ≈ 0.63 m <sup>2</sup> .K/W) |
| Pot Life                              | 90 minutes   |
| Setting Time                          | 4 - 6 hours  |
| Water Demand                          | 33 - 37% by Weight   |
| Compressive Strength<br>BS EN 1015-11 | > 4.5 N/mm <sup>2</sup> @ 28 Days                            |
| Bond Strength<br>BS EN 1015 - 12      | > 0.3 N/mm <sup>2</sup> @ 28 Days                            |
| Thermal Conductivity<br>ASTM C518     | ≈ 0.08 W/m.K   |

## Usage Instructions

### Surface Preparation

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

Prior to Vetotherm Plaster, wet the entire surfaces with clean potable water and surface should look damp at the time of Vetotherm Plaster application.

## Mixing

For manual application add to the mixing container 6.6 - 7.4 liters of water for each 20 Kg bag of Vetotherm Plaster or 33 - 37% of weight for machine application. Add the powder to the water and mix with a mechanical plaster mixer or low speed electric drill fitted with a suitable paddle for 3-4 minutes, until a uniform, lump-free consistency is achieved.

Manual mixing is allowed for small batch quantities, mix for approx. 1-2 min or when homogeneous mix is achieved.

## Application

Vetotherm Plaster can be applied in a single or two coats on rough or smooth surfaces by manual or machine application to achieve desired thickness 25-100 mm.

Apply mixed material using spray machine or hawk & trowel technique. Rod or screed to uniform thickness, not exceeding 25 mm for single coat or 25 mm each coat for multiple layers. First layer should be pressed hard against the surface.

For second layer allow the first layer to partially set (60-120min depending on weather). Apply second layer as described above.

Water spray the surface if second layer is carried out next day.

## Curing

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

## Packaging & Coverage

| Product           | Pack Size         | Yield                      |
|-------------------|-------------------|----------------------------|
| Vetotherm Plaster | 20 Kg Bag or Bulk | ≈ 32 lit wet/20 kg dry bag |

## Shelf Life & Storage

Original sealed container of Vetotherm Plaster has a shelf life of 12 months provided it is stored clear of ground in a dry shaded place below 25°C.

## Limitations

Do not mix with any additives or products, unless recommended by Saveto.

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 less than +5°C. During summer season 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

Vetotherm 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 eyes irritation, immediately wash with copious amount of cold water. Seek medical advise.

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

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