



Plaster Cement Perlite

Sprayable premixed plaster

Uses

- Internal & External plaster on block walls and rough surfaces.
- Plastering on fairfaced concrete and precast panels subsequent to Spatter Dash SB scratch coat.
- Improving thermal resistance properties as well as sound dampening.

Product Description

Plaster Cement Perlite is composed of a hydraulic cement, Perlite and selected aggregates with special additives. It is supplied as a dry powder in pre-weighed bags ready to use on site, which requires only addition of clean water to produce cohesive mix. Plaster Cement Perlite is a high quality product and provides as underlayment on various facets of the projects.

Advantages

- 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.
- Light weight.
- good improvement in thermal insulation.
- 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 vertical & ceiling surfaces.

Design Criteria

Plaster Cement Perlite is designed to be used at thicknesses between 10 - 30 mm in a layered application. The product can be applied on block walls without the need to use a scratch coat as long as the substrate is properly irrigated prior to application. In cases of fairfaced concrete; a scratch coat is needed to insure mechanical keying and enhanced bonding.

Technical Data

Plaster Cement Perlite	Typical Values @ 25°C
Appearance	Grey Powder
Density	1.07 Kg/Liter
Application Thickness	10 - 30 mm/ Layer
Open Time	30 minutes
Setting Time	5 - 6 hours
Compressive Strength ASTM C109	> 3.5 N/mm ² @ 28 Days
Flexural Strength ASTM C348	> 1.0 N/mm ² @ 28 Days
Bond Strength EN 1015 - 12	> 0.4 N/mm ² @ 28 Days
Average Thermal Conductivity ASTM C518-10	0.29 W/mK

Standards Compliance

- BSEN 998 -1 type LW
- ASTM C926
- Cement type: ASTM C150, type1

Usage Instructions

Surface Preparation

Substrate should be sound, clean, free from loose material, grease, laitence, dirt curing compound, or any other substance that might impair the quality of bond with the substrate.

Prior to Plaster Cement Perlite Application, damp the entire surfaces with clean potable water. The substrate should be a neutralized surface at the time of Plaster Cement Perlite application.

Mixing

Add to the mixing container 7-8 liters of water for each 25 Kg bag of Plaster Cement Perlite. 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.

Do not add water to the mix once the mixed mortar start to harden.

Smooth Concrete Surfaces

Apply Spatter Dash SB prior to the application of Plaster Cement Perlite.

Application

Plaster Cement Perlite can be applied in a single or multiple layers on rough surfaces. On smooth surfaces it should be applied subsequent to the application of a spatter-dash coat.

Rod or level to a uniform thickness immediately then follow smoothing the material to the desired appearance.

For multiple layers allow the plaster to partially dry (60-120 minutes depending on weather). Apply second coat at thickness as described above to a desired appearance.

After the surface appears stiff but still moist, follow the smoothing the material to achieve a desired appearance.

Curing

Plaster Cement Perlite is best cured by spraying water on its surface every 8-12 hrs for a minimum of 3 days. During hot & dry conditions allow curing for minimum of 5 days. It will help to obtain high mechanical strengths and minimize the risk of surface cracks.

Packaging & Coverage

Product	Pack Size	Consumption
Plaster Cement Perlite	25 Kg Bag or Bulk	1 to 1.2 Kg / m ² / mm

Shelf Life & Storage

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

Limitations

Make sure the substrate is suitable for the application of Plaster Cement Perlite, in case of doubt, try on sample area to assess its suitability.

Do not apply the product under direct rain, extreme wind, and at temperatures below +5°C or above +45°C.

Tools should be cleaned with water before the mortar hardens. After the hardening its residuals can be removed mechanically.

Health & Safety

Plaster Cement Perlite 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 washed with soap and water. In case of eyes irritation, immediately wash with copious amount of clean cold water. Seek medical advice.

Plaster Cement Perlite is non-flammable.

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

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