

# HRP 40

## Perlite Cement Based Light weight Insulating Plasters

Pack Size  
30Kg

# TDS Technical Data Sheet



### Product Description

HRP - 40 is a Perlite Cement-based Lightweight Insulating Plaster, designed to provide excellent thermal and sound insulation. It is ideal for new constructions or renovations as a basecoat for stucco finishes, a substrate for ceramic tiles, or masonry veneer. This plaster is highly versatile, stable, and durable, offering significant weight reduction compared to traditional sand plaster, making it easier to handle and apply on job sites.

### Features and Benefits

- **Lightweight:** Weighs up to 60% less than ordinary sand plaster, ideal for panelized wall construction.
- **Strong:** Enhanced resistance to hydration cracking with the addition of alkali-resistant glass or polypropylene fibers.
- **Insulating:** Provides superior thermal and sound insulation compared to sand plaster.
- **Adaptable & Easy to Handle:** Perlite is easy to stock and handle on the job site.
- **Stable & Durable:** Resistant to rot and decay, with proven effectiveness in various conditions since 1946.

### Uses

- Basecoat for stucco finishes
- Substrate for ceramic tile or masonry veneer
- Application over metal or wire lath
- Application on surfaces prepared with a cementitious bonding or key coat, or directly over other surfaces with an approved liquid bonding agent

### Technical Information

• Compressive Strength: 1	45-435 psi (1.0-3.0 MPa)
• Flexural Strength:	130-261 psi (0.9-1.8 MPa)
• Thermal Conductivity:	0.08-0.16 W/mK
• Wet Density:	700-1,100 kg/m <sup>3</sup> (43-68 lb/ft <sup>3</sup> )

### Mixing and Application

- **Mixing:** Add 80% of the required water to the mixer, followed by cement. Mix thoroughly until a uniform paste is formed, typically between 1 to 1.5 minutes. Mixing time should not exceed 4 minutes.

## Application:

- Apply the first coat with a thickness not exceeding 10 mm on ceilings and 16 mm on walls. If additional thickness is required, use self-furred metal lath before applying additional layers.
- Apply each coat manually or mechanically, with thicknesses ranging from 12 mm to 30 mm.
- When using expanded metal or wire fabric lath, use no less than three coats. Ensure the first coat fills all openings in the lath.

## Substrate Preparation

- Ensure all surfaces are clean, free from dust, oil, or foreign materials.
- Use rails or spot levels to control application thickness.
- Expansion joints or grooves should be used to accommodate the expansion of the plaster.
- Wire mesh is recommended on dissimilar materials.
- Wetting of the substrate is required on extremely dry surfaces.

## Sample Mix Proportions

5-7 litre water for 40 kg bag

## Important Considerations

- **Curing:** Water curing is required for a minimum of 3 days to reduce contraction and minimize cracking.
- **Limitations:** Not recommended over radiant heating panels. Perlite plaster should be divided with relief joints for large expanses.

## Storage and Shelf Life

- **Packaging:** Available in 40 kg bags.
- **Shelf Life:** 12 months from the date of manufacture when stored in dry, frost-free conditions.

## Pack Size

30Kgs



## Data Reliability

All technical data provided in this document are based on laboratory tests. Actual performance may vary due to factors beyond our control.

## Regional Compliance

Product specifications may vary based on local regulations. Please refer to the local Product Data Sheet for precise information.

## Legal Disclaimer

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