Quality Needs Quality

Properl Plaster

High-Quality Plaster for Sound Absorption, Thermal Insulation & Fire Proofing

Description	**Properl Plaster** is a lightweight cementitious plaster composed of hydraulic cement, expanded perlite, carefully selected aggregates, and special performance-enhancing additives. Supplied as a factory-prepared dry powder, it requires only the addition of water to produce a homogeneous plaster mix suitable for application at thicknesses ranging from 5 to 15 mm in one go. It offers improved thermal insulation properties while providing a practical and efficient solution for plastering applications. The product complies with ASTM C-423, ISO8301, BSEN1191,12667
Where to use	• It can be applied to internal/ external walls and ceilings • Over concrete and precast elements
Advantages	• Supplied in a dry powder, ready to use packaging • Applied onto internal/exterior walls and ceilings • Noise Reduction • Sound Absorption • Fire Resistance • Thermal Insulation • Easy to apply • Finished to a smooth surface

Properties

Dry Density	700 – 1000 Kg/m³	
NRC	0.25 (100 - 8000 HZ)	**Noise Reduction Coefficient**
10 mm thick	0.26	NRC value at frequency 1500 Hz
15 mm thick	0.4	NRC value at frequency 1500 Hz
20 mm thick	0.6	NRC value at frequency 1500 Hz
SAA	0.22 (100-8000 HZ)	
Compressive strength	5 – 25 Kg/cm² (according to dry density)	
Dry time	24 - 48 Hours	
Thermal Conductivity	0.035 W/m.k°	
Water Absorption	< 0.4 Kg/m² (Min 0.5)	
Final curing	7 Days	
Adhesion Strength	> 0.05 N/mm²	
Melting Point	1260 – 1340 °C	
Softening Point	850 – 1100 °C	

Surface Preparation	• Substrates should be sound, clean, and free from grease, laitance, curing compounds, and loose materials • Wet the entire surface with clean potable water • Allow the surface to dampen
Mixing	• Add the 7 – 8 L of water for each 15 Kg sack of material (for manual use), and 8 – 9 L of water (for spray application) • Mix with a mechanical mixer at low speed for 3 – 4 minutes until a uniform lump-free consistency is obtained • Leave the mix for 10 minutes and remix without adding water • Manual mixing for 1 – 2 minutes is allowed for small batches • Mixed materials must be used within 30 minutes • Do not add water after mixing

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Application	• The plaster is applied in a single render directly to blocks or concrete • For smooth concrete a spatter - dash is necessary • Apply the plaster with a trowel or spraying machine, leveling rod is required to achieve the required thickness • Where a multiple application is required, apply up to 15 mm/layer and leave to dry for 1 – 2 hours depending on weather conditions • The plaster should be cured by water spraying every 12 hours for 2 days • In hot weather cure for 4 days • It can be coated with **Decacoat W Thermodry** or **Decaproof Thermodry** • Don't apply the plaster at a temperature under 5 °C • In a hot climate, protect working areas from direct sunlight and excessive heat
Theoretical Coverage	0.7 - 1 Kg / m2 / mm Thickness
Packing	15 Kg Sacks
Shelf Life	One year in its sealed packs stored under proper conditions
Limitations	• Use goggles-gloves and a breathing mask when applying • Apply forced ventilation in confined spaces • Remove splashes from the skin with a hand cleanser or soap and water • Eye splashes are to be washed with plenty of water
Additional Information	**PROKEM** provides the construction industry with a comprehensive range of construction chemicals and specialty products answering the queries of modern engineers for trouble free durable structure. **PROKEM** designs tailor made products should there be critical application that requires specific properties rather than our main range, then and for our customer's satisfaction **PROKEM** reserves the right to change the properties of its products. All orders are accepted subject to our current term of sale & delivery. Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request. **PROKEM** extends technical services to include after-sales support to assist users in the proper handling of our products.