

Product Description

Single component water resistant monolith plastering/rendering mortar with a ratio of graded inert sand with cement and polymers for applications in civil construction works.

Reference Standards

- IS 1661-1972
- IS 2250-1965
- IS 2402-1963

Usage

- Manual plastering of internal & external walls in the range of 5mm-20mm
- Rendering of high build ceiling in a single pass of 15-20 mm thickness for final build upto 40mm.

Features & Benefits

- Cohesive & workable mortar
- Less water consumption
- Increased Curing efficiency
- Improves bond strength with applied substrate
- Negligible Rebound losses
- Eliminates cement slurry application over plastered surfaces
- Better tensile and flexural strength
- Improves putty coverage
- Increase in durability
- Faster rate of application
- Extended application time
- Uniform and smooth finishes
- Reduces wall porosity & voids

Product Specifications

(1) For Walls

Mix single component ENDURO PLAST in w/p ratio of 0.15-0.16 to provide thickness of 5mm-20mm, at a coverage of 0.175 TO 0.20 Kg/sqft/mm for smooth and excellent surface finishes.

(2) For Ceilings

Mix single component ENDURO PLAST in w/p ratio of 0.15-0.16 to provide thickness of 15mm-40 mm, at a coverage of 0.175 to 0.20 Kg/sqft/mm for uniform and desired contour.

Physical Properties

1) Nature of product	Single Component Cementitious Grey Powder
2) Fresh Wet Density (FWD)	1.5 to 1.6 gm/cc
3) Bulk Density	1.45-1.50 gm/cc
4) Thickness Build-up	Walls 5mm-20mm & Ceiling 10mm-40mm
5) Water Demand (W/P ratio)	0.15 to 0.16
6) Water Curing Cycle at 30°C	At intervals of 10-12 hrs for 3 days
7) Finishes	Smooth, Uniform and Void-free

Technical Details

Description	Test method	Values
Pot life at 30°C min	ASTM C 926-11 (a)	>120
Compressive Strength at 28 days, MPa	ASTM C 109 - 99	6-8
Tensile Strength at 28 days, MPa	ASTM C 307 - 99	Min.2.0
Flexural Strength at 28 days, MPa	ASTM C 348 - 97	Min.3.0
Water Absorption%	ASTM C 1585-13	Max 5
Rebound Loss %		Max 2

*All data are typical data.

Application Method

• Tools used for applying

- Thapi
- Steel Trowel
- Wooden Float

• Surface Preparation

- Surface needs to be cleaned and free from grease and loose particles
- SSD condition must ideal for porous and absorbent substrates
- Substrate should pre-watered to prevent premature loss of moisture from the plaster

• Mixing

- Use 6.0-6.4 ltrs of water for 40Kg Enduro Plast.
- Pour Enduro Plast in to water, and mix it for 4-5 minutes with a mechanical stirrer/mixer to achieve better consistency
- Allow the mixture to stand for 2-3 minutes for additives to disperse evenly. Re-mix again for about 2 minutes and the plaster will be read to use.

• Application

- Apply the plaster to the substrate using some pressure, finish with a trowel float to ensure optimum bonding of the plaster to the substrate surface.
- Enduro Plast can be used for both exterior and interior wall applications.

• Curing

- Doesn't require Curing for first 24 hrs in ambient weather conditions.
- Post complete drying of the plaster, Curing should be done 2-3 times for 2-3 days continuously, following standard practices.
- In tough weather conditions ie. 40°C, Curing for 5-7 days is suggested.

• Application Precautions

- Allow saturation time of 2-3 minutes for additive dispersion after mixing.
- Do not plaster and cover expansion joints. All expansion joints should run through the tile and stone work and filled only with specification-based materials, which helps achieve the required movement accommodation (MAF).

Health & Safety

- Wear PPE whilst mixing and application as per health & safety rules.
- In case of prolonged irritation in eyes and on skin due to contact, flush thoroughly with sufficient water.
- Avoid breathing dust.

Shelf Life of 6 months from date of manufacturing, when stored in a dry & sealed condition.

Pack Size : 40 kg bags

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