

THE
LEADERS' CHOICE

INTRODUCING THE ALL-NEW

ENDURO PLAST

Ready Mix Plaster



STRONG | GREEN | SMART

JSW Cement Ltd.

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About Us

JSW Cement is India's leading 'Green Cement' manufacturer and is part of the JSW Group. We have a strong commitment towards innovation in sustainability and technology to offer eco-friendly construction and building solutions to our customers. Growing exponentially since our inception in 2009, we have reached a production capacity of 14 MTPA (Million Tonnes Per Annum).

We envision a self-reliant India by boosting our colossal infrastructure and fast-growing economy through benchmark projects.

We cater to 11 major states in India across eastern, western and southern part of the country.

JSW Cement emerged in the market as a leader in environmentally friendly product Pozzolona Slag Cement (PSC). Since then we have expanded our cement range to Concreel HD (CHD), CompCem (Composite Cement – PCC)

JSW Cement also extends its services through its construction products in categories like Ground Granulated Blast Furnace Slag [GGBS] and Slag Sand for the use in concrete and other civil works. Latest introduction to this is the range of construction chemical products with its Drymix mortar range – Enduro Plast, Duraflor and Krysta Leakproof being launched in South.

JSW is now being recognized as a wholistic group for construction with Steel, Cement, Paints and now Construction Chemicals foray to the Indian market.



Product Description

Single component water resistance 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

Uses

- Plastering manually of internal & external walls from 5 mm-20 mm
- Rendering of high build ceiling in a single pass of 15-20 mm thickness for final build upto 40 mm



Features & Benefits



Cohesive workable mortar



Extended application time



Increased curing efficiency



Improves bond strength to applied substrate



Eliminates cement slurry application over plastered surface



Better tensile and flexural strength



Uniform and smooth finishes



Faster rate of application



Improved putty coverage



Reduced wall porosity & voids



Increase in durability



Negligible rebound losses

Product Specifications

For Walls :

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

For Ceilings :

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

Physical Properties

| | |
|---------------------------|---|
| Nature of product | Single component cementitious Grey powder |
| Fresh Wet Density (FWD) | 1.5 to 1.6 gm/cc |
| Bulk Density | 1.45-1.50 gm/cc |
| Thickness build up | Walls 5-20mm & Ceiling 10-40mm |
| Water Demand (W/P ratio) | 0.15 to 0.16 |
| Water Curing Cycle a 30°C | At intervals of 10-12 hrs for 3 days |
| Finishes | Smooth, uniform and void free |

Technical Details

| Description | Test method | Values |
|-------------------------------------|----------------|----------|
| Compressive Strength @ 28 days, MPa | ASTM C 109-99 | 6-8 |
| Flexural Strength @ 28 days, MPa | ASTM C 348-97 | Min. 3.0 |
| Water Absorption | ASTM C 1585-13 | Max 5 |

*For complete technical parameters please refer to the Technical Data Sheet

**Parameters are tested and verified by reputed third party test labs

Application Method

Tools to be used



Thapi



Steel trowel



Wooden float

Surface Preparation

- Surface needs to be cleaned and free from grease and loose particles
- SSD condition must be required for porous and absorbent substrates
- Substrate is pre-wetted to prevent premature loss of water from the plaster



Application

- Apply the plaster to the substrate using some pressure while finishing with a trowel or float to ensure optimum bonding of the plaster to the substrate surface
- ENDURO PLAST can be used for both exterior and interior wall applications



Surface Preparation

- Use 6-6.4 ltrs of water for 40 Kg ENDURO PLAST
- Pour the ENDURO PLAST to water, while mixing 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, plaster is ready to use



Curing

- In ambient weather condition, doesn't need curing for first 24 hrs
- After the plaster is completely dry, curing should be done 2-3 times for 2-3 days continuously
- In abnormal weather conditions (740 deg C), curing for 5-7 days is required

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 designed materials which achieves required movement accommodation (MAF).

Health & Safety

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

- **Shelf life 06 months from date of manufacturing in sealed condition**
- **Store it in dry & packed condition**
- **Pack Size : 40 kg bags**