



SMOOTH WALLS BEAUTIFUL HOMES



IC PRECIPLAST

Polymer Modified Plaster

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"IC PRECIPLAST" is a ready to use, polymer modified cement based plaster. It is designed with unique reactive polymers and graded sand for straightening of block and brick masonry, patchwork and repairs. "IC PRECIPLAST" is optimized for mechanized as well as manual application of the plaster.

"IC PRECIPLAST" meets the requirements of ASTM C 926, EN 998-1, GP-CS IV, BS 8481 (2006) and IS 1661 (1972).

Conventional plaster methods rely heavily on neat cement coat for bonding with substrates and curing to develop strength in the long run. "IC PRECIPLAST", a revolutionary breakthrough of years of research, eliminates the requirement of tack coat altogether, making plastering simpler and a one step process. It is relatively less dependent on curing, as compared to conventional plaster.

► Advantages

- Designed meticulously for best performance for both, manual application and application through spray machine.
- Pre-mixed at the state-of-the-art plant, eliminating scope of errors associated with mixing at site. Only water is to be added at the site before application.
- No need of tack coat (neat cement slurry) between substrate and "IC PRECIPLAST" except for dense concrete surfaces.
- Use of well-graded sand eliminates the need for onsite sieving of sand, leading to man power efficiency.
- Negligible rebound loss and wastage results in higher productivity.
- Negligible plastic shrinkage cracks (crazing).
- Machine friendly plaster for fast and economical work.
- Suitable for internal as well as external application.
- Use of processed sand eliminates chances of developing efflorescence.
- Low thermal conductivity makes it ideal for tropical climatic conditions.

► Suitable Substrates

- Concrete walls, slabs & ceilings
- Clay brick masonry
- Concrete hollow brick masonry
- Cement and AAC block masonry

► Method Of Application

SURFACE PREPARATION

- The substrate should be clean and free from loose particles, dust, grease and any other foreign material that may affect adhesion.
- Concrete, screeds, block work should be sufficiently cured to avoid shrinkage cracks.
- Any structural crack must be treated before commencement of plastering work.
- At places where two different types of masonry substrates meet, the joints must be reinforced with a suitable wire mesh.
- In case of dry and absorbent substrates, the surface should be moistened with potable water. The substrate needs to be in SSD (saturated but surface dry) condition during plastering.



MIXING RATIO

- Prepare "IC PRECIPLAST" by thoroughly mixing 8-10 liters (20-25%) of water per 40 kg bag.
- Use of mechanical mixer / electrical stirrer is highly recommended for proper and thorough mixing to achieve optimum results.
- Initially, take 1.5-2 liters (15~20%) of the total water requirement and add "IC PRECIPLAST" so that the material does not stick to the pan. Gradually, add the rest of the water while mixing the material to prepare a lump free paste.
- Use clean potable water to prepare the mix.
- Mixing should be done for 5-10 minutes depending on the speed of the mixing equipment. Once mixed, allow the mix to stand for 5 minutes and then mix again before applying.

- No further water should be added. Hard and set plaster should not be mixed again.
- Correct ratio of water to "IC PRECIPLAST" is very important for the desired application quality and output of plastering.

METHOD OF APPLICATION

- The "IC PRECIPLAST" mix should be applied within 1-2 hours of mixing, depending upon the environmental conditions.
- The application of "IC PRECIPLAST" can be done manually or through a spray machine.
- Load the material with the help of a plastering trowel/ spatula to build a thickness of up to 12mm on a pre wetted masonry unit.
- Allow the plaster to dry to an extent where it can be smothered with the help of a wooden or an aluminum float.
- Patch the spots of depression to bring the surface to level and re float the plaster to make the entire area uniform.
- "IC PRECIPLAST" can be applied in a coat of thickness up to 10~12 mm in one go.
- Plumb should be checked regularly to ensure vertical correctness of the masonry unit.
- Remove excess material immediately. Follow this process during the entire process of masonry work.
- For application by machine, adjust the consistency as appropriate (within the given range of water-powder ratio) to allow the material to pass through the spray hose.
- The thickness should be just enough to prevent sag.
- Subsequent coats can be applied if needed, to increase the thickness of the initial coat once dry.
- "IC PRECIPLAST" should be protected from direct exposure to sunlight, wind and rain during application.
- For application on smooth and dense concrete surfaces, it is recommended to make the surface rough and wet it with cement slurry (Cement: Water Ratio - 1:1) or apply a thin dash coat to provide a better key for the plaster coat.



CURING

- No water curing is needed within the first 24 hours of application in normal weather conditions. Once the plaster is dry, it should be cured with water spray twice a day for 2-3 days. However, for conditions other than normal, curing with water spray needs to be done for 5-7 days for proper hydration.

COVERAGE

- Coverage is based on the smoothness and evenness of the substrate. Typically, coverage of "IC PRECIPLAST", when used with 20~25% water for a 10~12mm thick application is 0.19-0.22 Kg per Sq Ft/mm on the masonry surface.
- However, coverage will depend on the application and surface conditions.

PRECAUTIONS DURING USAGE

- Selection of masonry units is very critical as poor quality bricks may lead to efflorescence which will leach out of the plaster.
- Hard/salty water is not recommended to be mixed with "IC PRECIPLAST" as it may deteriorate the performance of plaster.
- Though "IC PRECIPLAST" contains no toxic material, care should be taken to avoid dust inhalation while mixing and handling. In case of contact with eyes or face, wash with plenty of clean water. Persons who are allergic to cement should take proper precautions before use.



STORAGE & SHELF LIFE

- Store in a cool and dry place. Ensure that the bags do not burst or tear while handling. Hooks should not be used during handling. There should be a gap of 0.5 metre between the walls and the stacks.
- "IC PRECIPLAST" will remain usable for a period of six months from the date of manufacture, when stored as per the standard recommended conditions.

► Technical Data

Parameters	Typical Values
Appearance	Greyish Granular Powder
Binder	Grey Cement
Aggregate	Processed and Graded Sand
Additives	Water Soluble additives for better bonding, higher tensile adhesion and durability
Bulk Density (kg/L)	1.3~1.4
Fresh wet density (kg/L)	1.9~2.0
Water powder ratio (%)	20~25
Pot Life (Hours)	2.0
Coverage (kg/sqft/mm)	0.19~0.22*
Compressive Strength (MPa) in 7 Days in 28 Days	5~6 8~9
Tensile Adhesion Strength (N/mm ²), on concrete block as per EN 1348 in 7 Days	>0.4
Flexural Strength (N/mm ²) as per EN 12808 - 3 in 7 Days	>1.5

*Coverage may change depending on the application process and surface conditions. Specifications are subject to change in our pursuit of product improvement. Kindly contact the technical personnel for any clarification.

Please contact us for more information on our products



IC PRECIJOINT
Thin & Strong Jointing Mortar



IC PRECIFIX
Tile Fixing with Precision



IC PRECISEAL
Precision Waterproofing Solution



IC PRECIGROUT
High Strength Precision Grouting



BUILDING MATERIAL DIVISION

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Disclaimer: Please read carefully the guidelines given in this leaflet to achieve optimum results. The procedure mentioned here are for ideal conditions. Technical advice should be sought for different conditions. Specific instructions for various site conditions can be provided by us on demand.