

A UNIQUE CONCEPT FOR BRICK WORK & PLASTER APPLICATIONS



Product and process innovation is at the heart of everything we do at Robo Silicon. We are proud that this drive to innovate has led us to launch another first in the form of RoboPlast for brick-working and plaster applications.

RoboPlast : Manufactured Sand Blend 0-2mm is manufactured by crushing rock in a three-stage configuration consisting of a Jaw Crusher, followed by a Cone Crusher and finally a Vertical Shaft Impactor (VSI). This eco-friendly product is created similar to nature's way of rock-hit-rock and blended with specific fine aggregates to make RoboPlast ideal for Brick, Stone, Cement Block Work and Internal and External Plaster Applications.

Get the RoboPlast Advantage

- RoboPlast, a blend of specific fine aggregates provides complete masonry solutions at site and improves workability.
- The ready-to-use product eliminates the sieving process at site.
- The absence of deleterious and waste material makes RoboPlast economical.
- The strength of the mortar joints is high.
- The adhesion property of the material when used for plaster work is better.
- The wastage and rebound losses during application of material are low.
- The easy availability of RoboPlast ensures completion of project as per schedule.
- Its cohesive properties prevent penetration of moisture into the structure through brick joints and plastered surfaces.

Recommended mortar mix

- Brick/ Stone/ Cement Blocks - 1 : 6
- Plaster - 1 : 3 to 1 : 6
- Internal Wall - 1 : 6
- External Wall – 1 : 4 or 1 : 6

Note : For better results, please seek the advice of the Structural Engineer on the site.

Product Application Procedure

- Trim projections and clean the surface before plastering.
- The thickness of the joint for the brick work should be less than 1cm and face joints concaved in for better grip.
- The plastering may be carried out as per the norm, either in a single or double coat.
- The second coat may be applied within 7 days when the first coat has set but is not completely dry.
- The recommended thickness for internal plaster is below 15mm and external plaster is 20mm.
- The brick / cement blocks should be slightly wet before using the product for mortar or plaster applications.
- The mix requirement per day must be mixed in small batches.
- Continuous curing for a minimum of 7 days is required.

! Precautions

🧑 Health and Safety

- Aggregate material is non-combustible and non-explosive.
- Airborne particles may cause irritation to eye and washing with water is recommended.
- A nose mask may be worn to prevent inhaling of dust.
- The use of hand gloves is recommended for masons to prevent dry skin and discomfort.

🧑 Storage and Handling

- The material at site has to be stocked in flat beds of maximum height not exceeding 1mt to maintain proper gradation and prevent down-sliding of heavier fractions to the bottom of stock pile.
- The material may be covered by tarpaulin during rainy season.

