

TECHNICAL DATA SHEET: BLOCK JOINTING MORTAR

Ready to use cement based non shrink, self-curing mortar, designed to produce high strength thixotropic mortar, for laying-block / brick of all types.

APPLICATION

Used to lay CLC, AAC, Solid/Hollow Concrete Blocks and Fly ash bricks. Can be applied on exterior / interior surface as thin bed adhesive.

ADVANTAGES

- **Thin Joints:** 3-4 mm of adhesive is sufficient to join blocks as compared to cement mortar, which takes 8-12 mm thick mortar joints. Jointing material is reduced by 75%.
- **Reduced Material Usage:** Less volume of adhesive leads to a reduction in the storage space, fewer labours to handle and reduced cost of transportation.
- **Speedy Construction:** Block adhesive is a ready-mix material and only water is added for application which saves time and results in speedy construction.
- **Water Conservation:** Block adhesive is self curing and no water is needed after application.
- **Site Cleanliness:** In case of cement mortar, due to mixing on-site and curing, the cleanliness of site is not maintained.
- **Minimum Process Time:** As no curing is to be done, the masonry wall is ready in just 24 hours. Otherwise, for cement sand mortar, curing is done for 7 days.
- **Less Wastage:** Cement mortar accounts for 20-30% of wastage during its use. While there is negligible or no wastage of block adhesive.
- **Thermal Insulation:** The block adhesive is specially formulated for thermal insulation and waterproof bondage.
- **Quality Control:** As the adhesives are manufactured in factories under controlled conditions, the quality control measures can be effectively observed and maintained. Cement mortar is prepared on-site and, therefore, uniform quality mix is difficult to ensure.



TECHNICAL DATA

Appearance / Color	Powder / Grey
Chemical composition	Cementitious mortar modified with polymers
Size of Silica Sand Particles	0-0.8mm
Packaging	20 Kg Bag
Shelf Life	Six (06) Months if stored off the ground in a dry area, at 21° C and 50% RH. High humidity will reduce the shelf life of bagged product.
Water / Power Ratio	4.0 – 4.7 liters of clean water / 20 kg bag
Pot Life / Workability	01 Hour (at temperature 20° C)
Thickness of Layer	3 – 4 mm
Coverage / Estimation	Coverage is based on smoothness and evenness of the substrate, size of blocks used and the thickness of mortar used. As a general guide due to thin layer (3 – 4 mm) Jointing material is reduced to 75% as compared to cement mortar.
Applicable Standard	Conforms to ANSI A118.1 & ANSI A118.4-1999
Bulk Density of hardened mortar	~ 1.33 Kg/l (at +27°C)
Compressive Strength	>12 N/mm ²
Flexural Strength after 28 days	>3 N/mm ²
Adhesive strength	>1 MPa N/mm ²

SUITABLE SUBSTRATE

- Concrete Blocks
- Cement Mortar Blocks/Bricks
- Concrete hollow blocks
- Aerated Light weight blocks (AAC Blocks)
- Cellular concrete blocks (CLC Blocks)
- Fly Ash Bricks

SURFACE PREPARATION

All surfaces should be between 40°F (4°C) and 90°F (32°C) and structurally sound, clean and free of all dirt, oil, grease, concrete sealers or curing compounds.

MIXING

Use approx. 20 kg of Block Jointing Mortar with Approx. 05 liters of potable water. Take water in the container and slowly add the powder into the water while mixing by hand or slow speed mixing machine. Mix for 3 to 5 minutes till a smooth paste is obtained.

APPLICATION

Before placing mortar, ensure the block work to be dry and surfaces cleaned properly. Place the mixed mortar on the block work in thin layers of 3 to 4 mm (or as required by engineers at site) using trowel and place the next layer of blocks on the mortar. Keep joints between the blocks as required by the site engineers and fill the joints with the mixed mortar, using a trowel. Check the plumb of the wall while laying the blocks to keep the walls perfectly vertical to the plumb.

WARRANTY

SEED Chemicals Pvt Ltd warrants that BLOCK JOINTING MORTAR is free from manufacturing defects and will not break down, deteriorate or disintegrate under normal usage, subject to the terms and conditions stated in SEED Chemicals Product Warranty.

CAUTIONS

- During cold weather, protect finished work from freezing temperatures.
- Contains Portland cement and silica sand. May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water.
- Do not take internally. Silica sand may cause serious lung problems. Avoid breathing dust. Wear a respirator in dusty areas.
- Keep out of reach of children.

LEGAL NOTICE

The information and, in particular, the recommendations relating to application and final use of SEED products are provided in good faith, resulting from the present knowledge and experience with the products when properly stored, handled and applied under normal conditions in accordance with the recommendations of SEED or its distributors. As long as the use and processing of the product is not subject to our direct influence, we will not be liable for any damages caused by its misuse. We reserve the right to make changes resulting from technical progress.

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