

TECHNICAL DATA SHEET (TDS)

Stockyard Infra Private Limited

Stockyard BJM – Block Joining Mortar

High Performance Block Joining Mortar (BJM)

Product Description

Stockyard BJM is a pre-mixed thin block jointing mortar used for laying blocks such as concrete blocks, AAC blocks, CLC blocks, hollow blocks, and fly ash bricks. It is manufactured using a unique blend of cement, graded sand, and performance-enhancing additives formulated to provide reliability, durability, secure adhesion, and strong bonding strength.

The application requires only water addition to producing an easy-to-use mortar with a recommended bed thickness of 3 mm to 4 mm.

Uses

Stockyard BJM is used for fixing and jointing:

- AAC Blocks
 - CLC Blocks
 - Hollow Blocks
 - Concrete Blocks
 - Fly Ash Bricks
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Advantages

- High tensile adhesion with superior bonding strength
- Consistent quality with dust-free application
- Self-curing, quick-drying, and rapid setting
- Long-lasting and economical solution

- Uniform application ensuring building accuracy
- Minimal shrinkage and crack formation
- No water percolation due to watertight joints
- Smooth flow spread with trowel for easy application
- Reduced vertical crack lines due to lower shrinkage

Reference Standards

Stockyard BJM meets or exceeds the requirements as per:

- ASTM C 109
- ASTM C 4541

Technical Data

Sr. No.	Property	Product Specification	Standard
1	Physical Appearance	Cementitious free-flow gray powder	-
2	Binder	Ordinary Portland Cement with processed fly ash	-
3	Additives	Performance-enhancing proprietary additives	-
4	Fine Aggregates	Well-graded processed sand	IS 2116:1980
5	Max Fine Aggregate Size	610 microns downside	-
6	Water Demand	20% to 25%	IS 4031 (P6)
7	Bulk Density	1.35 – 1.45 kg/l	IS 2386 (P3)
8	Mix Density	1.60 – 1.80 kg/l	Laboratory Test
9	Final Setting Time	270 – 300 minutes	IS 4031 (P5)
10	Pot Life	80 – 100 minutes	-
11	Compressive Strength	≥ 7 MPa after 28 days	ASTM C 109
12	Tensile Adhesion Strength	0.40 N/mm ² after 28 days	ASTM C 4541
13	Curing	Not Required	-
14	Silt Content	< 0.1%	-
15	Coverage	3.5 Kg/m ²	-

Stockyard Infra Private Limited

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Application Guidelines

Surface Preparation

Before application, remove all loosely adhering materials, dust, dirt, grease, oil, and old residues from the masonry unit surface using sandpaper, wire brush, or water jetting.

Ensure the surface is clean and free from loose materials.

Moistening

Lightly moisten masonry units with clean water before application.

Mixing Procedure

Mix Stockyard BJM powder with 20–25% clean water using a variable-speed mechanical paddle mixer.

Continue mixing for 3–5 minutes until a homogeneous mortar is formed.

Ensure the mix is uniform and free from dry powder and lumps for better application and improved coverage.

Application Method

Use a notch trowel to maintain a uniform bed thickness of 3–4 mm.

Each masonry unit should be properly placed and set by gently pressing.

Apply mortar properly on internal faces of masonry units to achieve stronger adhesion.

Packaging

Supplied in 40 kg PP laminated bags.

Storage and Shelf Life

- Store away from direct sunlight
 - Keep in a cool and dry place
 - Shelf life: 6 months from manufacturing date in original sealed packaging
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Safety Precautions

- Avoid dust inhalation during mixing and handling
- In case of contact with eyes or skin, wash thoroughly with water
- Keep away from children
- Use protective masks, gloves, and safety glasses during application

- People allergic to cement products should take extra precautions
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Limitation of Liability

This information is based on our current level of knowledge and is provided in good faith. It is not intended to guarantee specific product properties. Users must satisfy themselves that there are no circumstances requiring additional information, precautions, or independent verification.

Company Details

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