

TECHNICAL DATA SHEET



RITEBUILD® BJM (Block Jointing Mortar)

(Ref. SIPL / TDS / BJM / 0523 / R-02)

❖ Product Description

RITEBUILD® BJM is a thin-bed, high bond strength, pre-mixed, quality assured mortar comprising of portland cement, specially graded sand and blended with polymer admixtures. It is specially formulated for giving a higher bonding with higher air entraining properties with easy application. **RITEBUILD® BJM** is a masonry mortar for use in laying bricks or block. It replaces conventional jointing mortar of 12-18mm thickness with highly versatile 3mm thickness mortar.

❖ Special Features

- Thin bed, high bond strength masonry mortar
- **ASTM C 1660** Classified Product
- Comprising of high grade Portland cement, graded sand and polymer admixture
- Higher bonding with higher air entraining properties
- Suitable for concrete blocks, AAC blocks, cement mortar blocks / bricks.
- Also applicable to joint concrete hollow blocks & fly ash bricks
- No shrinkage cracks



❖ Application

- Suitable for fixing of AAC & CLC blocks
- Suitable for fixing of hollow blocks, concrete blocks
- Suitable for fixing normal bricks and fly ash bricks
- Suitable for block to block and surface to block fixing applications
- Suitable for both Interior and exterior application area

❖ Advantages

- Quick setting property “GLUES” the blocks together quickly
- Single component, Ready to use product (just water to be added at site as per mix ratio) which saves lots of time and manpower cost
- Ready mixed product designed for new construction and renovation purpose
- Good workability and low shrinkage
- It doesn't cause damage to eco system
- High bonding strength
- No curing required post fixing the blocks

❖ Suitable Substrates

- Concrete blocks
- Cement mortar blocks / bricks
- Cement hollow blocks
- AAC blocks
- Fly ash bricks

❖ Coverage

- Approx. 110 - 120 sq. feet per 40 kg bag with 6mm x 6mm square notch trowel (Brick size 600 x 200 x 150mm)
- Coverage depends on thickness of adhesive used and the smoothness, evenness, porosity of the block used
- Above results are as per standard laboratory conditions
- Coverage may vary depending upon the site condition and substrate absorption

❖ Packing

40 Kg Bag

❖ Shelf Life

Factory sealed bags are best before 12 months from the date of manufacturing in unopened condition stored in dry area

❖ How to Apply

Surface Preparation

- The surface should be clean and free from dirt, oil and grease before applying the product
- Ensure that the substrates is flat, stable, well adhered and has normal absorption
- The surface of masonry area should be slightly wet prior before application
- The surface should not have cracks, holes and that are should be repaired before application
- Ensure to remove loose particles, dust or contaminates on block surface prior to commencement of RITEBUILD[®] BJM application work.
- Pre-wet the blocks and it should be touch dry before application
- Uneven surface or undulations (if any) should be made smooth with proper mortar or screed (use MYMIX SBR 330 to make mortar or screed)
- The proper preparation of the surface will make the fixing easier and quicker ensuring a better finish
- New concrete is recommended to be 1 month old and completely dried before application

Mixing

- Take 8.0 to 9.5 litres (20 to 24% weight) of cool and clean tap water in a clean mixing drum or bucket and add 40 kg of RITEBUILD[®] BJM
- Stir properly for 5 minutes by hand or an electric stirrer to get a smooth and homogeneous mixture
- After stirring wait for 3-5 minutes to allow slake the mix, stir once again. Adjust the consistency if necessary
- Ensure that no powder, lumps particle and unmixed material left in the mixture

Application

- Apply a thin uniform layer of mortar on clean block with a mason's square notch trowel (6mm x 6mm) to make an even joint layer of 2-3mm thickness
- RITEBUILD[®] BJM to be applied on all faces of block and on columns/adjacent walls/ beams to ensure proper bonding at all the joints
- Always check the plumb level of the wall while lay down the blocks
- Place the next layer of RITEBUILD[®] BJM on the blocks and go on placing the blocks with above method
- Use rubber mallet to get good contact between blocks
- Should keep the joints between the blocks and Remove excess materials if any from the joints.
- Allow to cure the adhesive for at least 24 hours prior to go for subsequent application

❖ Other Recommendations

- If Tiling is required then RITEBUILD[®]CTA / FTA / UTA can be applied for tiling application
- Based on the applications RITEPOXY[®]ESG - 1200, Glitter Star, TR, EIG - 2200 and cementitious grouts (CGU) can be applied which are available in more than 28 colours. Refer technical data sheet.

❖ Notes on Application / Limitations

- For wall laying surface should be in good condition
- Do not add excess water that recommended. Always add powder to water & never add water to powder
- During application, do not attempt to extend the pot life by adding more water to the mixture
- Product performance on site varies subject to site conditions and installation procedure followed
- Do not add any other materials or substrates like sand, aggregates, cement etc. to the product. It may adversely affect the performance of product
- MYMIX BJM is not recommended for tile fixing

❖ Technical Data

General Properties

Testing Parameters	Result	Testing Parameters	Result
Mixing Ratio	Approx. 20 - 24% by weight	Density of Mixture	1.90 - 1.95 g/cm ³
Colour	Available in GREY	Setting Time	8 - 10 hours
Open Time @ 23 ^o - 27 ^o C	15 - 20 minutes	Time for Plastering	24 hours
Pot Life	50 - 70 minutes	Service Curing	14 days

Physical Properties

Testing Parameters	Standards	Results
Compressive Strength (28 th day)	ASTM C 109	>9.5 Mpa
Shear Adhesion Strength (28 th Day)	IS 15477	>1.25 Mpa
Tensile Adhesion Strength	EN 1348	>1 Mpa
Splitting Tensile Strength	ASTM C 1660	0.40 Mpa

❖ Precautions

- Keep out of reach of children
- Wear suitable protective cloths, respirator and gloves
- In case of contact with skin / eyes, wash immediately with plenty of water & seek medical help

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