

Viacrete Block Joining Mortar

PRODUCT DESCRIPTION:

Viacrete Block Joining Mortar is a pre-mixed, polymer-modified, high-strength cementitious mortar designed for laying AAC blocks, fly ash bricks, hollow concrete blocks, and other lightweight masonry units. It is engineered for thin joint applications (2–3 mm) and delivers excellent bonding, reduced shrinkage, and quick setting. With uniform consistency and self-curing properties, it enhances the speed and quality of masonry construction.

Technical Details

Property	Result
Appearance	Grey powder
Mixing Ratio (Powder:Water)	25 ± 3% by weight
Pot Life	1 hour @ 27°C
Final Setting Time	24 hours
Compressive Strength (28 days)	6–7 MPa
Tensile Adhesion Strength (28 days)	> 0.6 MPa
Flexural Strength (28 days)	~0.5 MPa
Bulk Density	1200 – 1300 kg/m ³
Layer Thickness	2–5 mm recommended

KEY FEATURES & BENEFITS

- ✓ Ready to Use: Just add water, mix, and apply
- ✓ High Bond Strength: Stronger adhesion than traditional cement-sand mortar
- ✓ Thin Layer Application: 2–3 mm thickness helps save space and material
- ✓ Non-Shrink & Crack-Free: Prevents joint cracks and shrinkage
- ✓ Self-Curing: Eliminates the need for external water curing
- ✓ Quick Setting: Enables faster construction cycle
- ✓ Consistent Quality: Factory-controlled production ensures uniform performance

RECOMMENDED USES

- ✓ AAC block walls
- ✓ Fly ash brick masonry
- ✓ Concrete and hollow block walls
- ✓ Internal and external wall applications in residential, commercial, and industrial buildings

Mixing & Application

1. SURFACE PREPARATION

- ✓ Clean blocks thoroughly using a brush or air blower to remove dust and loose particles
- ✓ Dampen blocks slightly with water before applying mortar to avoid water absorption

2. MIXING

- ✓ Mix 25 ± 3% clean water with Viacrete Block Joining Mortar using a slow-speed mixer (<500 rpm)
- ✓ Mix for 2–3 minutes until a lump-free, homogeneous paste is achieved
- ✓ Allow to rest for 5 minutes, then remix for 15 seconds before use



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Mixing & Application

3. APPLICATION

- ✓ Use a notched trowel to apply a 2–3 mm layer evenly on the block surface
- ✓ Place the next block on top of the applied layer and gently press for proper alignment
- ✓ Remove any excess material immediately
- ✓ Ensure joints are uniform and consistent for optimal strength and aesthetics

COVERAGE

Thickness	Coverage (40 kg bag)
3 mm	160 sq. ft.
4 mm	120 sq. ft.
5 mm	96 sq. ft.
6 mm	80 sq. ft.

BLOCK SIZE COVERAGE (40 KG BAG)

Block Size (mm)	Wall Area Coverage
600 x 200 x 75	180–200 sq. ft.
600 x 200 x 100	160–180 sq. ft.
600 x 200 x 125	140–160 sq. ft.
600 x 200 x 150	120–140 sq. ft.
600 x 200 x 200	70–80 sq. ft.

SHELF LIFE & STORAGE

- ✓ Shelf Life: 6 months in original sealed packaging
- ✓ Store in a cool, dry place away from moisture and direct sunlight

CLEANING

- ✓ Clean tools and equipment with water immediately after use
- ✓ Hardened material must be removed mechanically

LIMITATIONS

- ✓ Do not exceed recommended water dosage
- ✓ Ensure substrate is sound, clean, and slightly moist before application
- ✓ Not suitable for structural repairs or high-load applications