



AAC BLOCKS | BLOCK JOINTING MORTAR | TILE ADHESIVES |
READY PLASTER | CLASS F FLY ASH



WHO WE ARE

- MTB Infratech Pvt Ltd. is a leading building materials manufacturer based in Hyderabad, India, delivering innovative, sustainable, and highperformance construction solutions
- Our expertise spans across lightweight masonry systems, high-adhesion block jointing mortars, advanced tile adhesives, ready plasters, and performance mineral admixtures (F-Class Fly Ash) – engineered to meet modern architectural and structural demands.
- We are strategically focused on the GCC and wider Middle East region, offering products and systems that comply with ASTM and EN international standards, ensuring durability, efficiency, and long-term value for every project.



AAC BLOCKS

- Dry density: 500–650 kg/m³ (grade-dependent)
- Compressive strength: ≥ 3.0 –5.0 MPa (28 days)
- Thermal conductivity (λ): 0.12–0.16 W/m·K
- Fire resistance: up to 4 hours for 150–200 mm walls (assembly-dependent)
- Sound reduction index: ~40–45 dB @ 200 mm wall
- Water absorption (by mass): 25–35% (typical)
- Drying shrinkage: $\leq 0.04\%$

AAC BLOCKS-TYPICAL SIZES

Dimension (mm)	Application	Notes
600 × 200 × 100	Internal partitions	Fast track fit-outs
600 × 200 × 150	Non-load bearing walls	Balance of strength & insulation
600 × 200 × 200	External walls	Higher fire & acoustic performance
Custom (75–300 thick)	Project-specific	Lead times apply

AAC BLOCKS- COMPLIANCE & ADVANTAGES

- Standards: EN 771-4 (AAC masonry units); ASTM C1693 (AAC units guidance)
- Advantages: 60–70% lighter than solid concrete; quick installation; reduced dead load
- Energy efficiency: lower HVAC loads due to low λ -value
- Green credentials: high recycled content & reduced embodied energy

BLOCK JOINTING MORTAR

Polymer-modified thin-bed adhesive for AAC and concrete blocks



BLOCK JOINTING MORTAR — TECHNICAL DATA

- Mixing ratio (water): ~20–25% by weight
- Bed thickness: 1.5–3.0 mm (thin-joint)
- Pot life / workability: 2–3 hours @ 25–30°C
- Open time: 10–15 minutes; adjustability: ~10 minutes
- Compressive strength: ≥ 10 MPa (28 days)
- Tensile/bond strength: ≥ 0.5 –1.0 MPa on AAC/concrete
- Coverage: ~1.5–2.5 kg/m² depending on block smoothness

BLOCK JOINTING MORTAR — STANDARDS & GUIDES

- Standards: EN 998-2 (masonry mortar); regional specs per project
- Clean substrate; apply with notched trowel; light mist curing for 24 hours
- Packaging: 25 kg moisture-resistant bags; Shelf life: 12 months (dry, shaded storage)

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TILE ADHESIVES

Cementitious adhesives for ceramic,
porcelain, and stone



TILE ADHESIVES — GRADES & PERFORMANCE

- Grades per EN 12004-1: C1 (normal), C2 (improved); Options: T (reduced slip), E (extended open time), S1 (deformable)
- Shear/adhesion strength: ≥ 1.0 MPa (C1), ≥ 1.5 MPa (C2) – dry & water immersion
- Open time: ≥ 20 –30 min (E); Pot life: 3–4 hours
- Application temperature: $+5^{\circ}\text{C}$ to $+35^{\circ}\text{C}$
- Coverage: ~ 3 –4 kg/m² (6 mm notch); 4–6 kg/m² (10 mm notch)

TILE ADHESIVES — SUBSTRATES & USE CASES

- Substrates: concrete, screeds, cement render, AAC; gypsum/anhydrite with primer
- Use cases: large-format porcelain, vitrified tiles, mosaics; interior and exterior
- White variant recommended for translucent stone & light marbles
- Packaging: 20/25 kg bags; Shelf life: 12 months

READY PLASTER

Pre-mixed cementitious plaster with
polymer additives



READY PLASTER — TECHNICAL DATA

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READY PLASTER — ADVANTAGES

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CLASS F FLY ASH

Pozzolanic mineral admixture for durable,
low-heat concrete



CLASS F FLY ASH — COMPLIANCE & CHEMISTRY

- Standard: ASTM C618 (Class F) – $\text{SiO}_2 + \text{Al}_2\text{O}_3 + \text{Fe}_2\text{O}_3 \geq 70\%$ • Loss on ignition (LOI): $\leq 6\%$; Moisture: $\leq 3\%$
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- Fineness (45 μm sieve residue): $\leq 34\%$ (ASTM method)
- Strength activity index (7 & 28 days): $\geq 75\%$ of control cement





CLASS F FLY ASH — BENEFITS & DOSAGE

- Benefits: reduced heat of hydration, improved sulfate & ASR resistance, denser matrix
- Typical replacement levels: 15–30% by mass of cementitious materials (mix-design dependent)
- Applications: ready-mix concrete, precast, AAC blocks, masonry units • Supply: bulk tankers or 1.4 MT jumbo bags; QC COAs available per lot

QUICK SELECTION GUIDE

Application	Recommended Product	Notes
AAC walling system	AAC Blocks + Block Jointing Mortar	Fast-track, lightweight, thermally efficient
Facade tiling (porcelain)	Tile Adhesive C2TE/SI (as needed)	Extended open time; deformability for large formats
Internal plaster on AAC	Ready Plaster	Smooth finish; controlled shrinkage
High-durability concrete	Class F Fly Ash	Lower permeability; improved durability

LOGISTICS, QC & COMPLIANCE (MIDDLE EAST)

- **Documentation:** Technical Data Sheets (TDS) & Certificates of Analysis (COA) with each batch
- **Standards mapping:** EN 771-4, EN 998-1/-2, EN 12004-1, ASTM C618 (project-specific specs on request)
- **Packaging:** 20/25 kg bags; 40 kg on request; 1.4 MT jumbo for bulk powders
- **Storage:** cool, dry, shaded; stack ≤10 bags high; use FIFO within 12 months

CONTACT US

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For GCC inquiries: product specs & samples
available upon request

