

Who We Are?

"We help people build their homes **better, faster and cheaper** by using innovative construction technologies".

More than a decade of innovation and continuing.



The largest manufacturer of AAC Blocks in India (installed capacity of 13 lakh CBM/annum) near high growth markets of West and North



10 lacs+ homes built over the past decade using Magicrete products.



Motilal Oswal Private Equity (2013) & India SME (2023) invested in Magicrete.

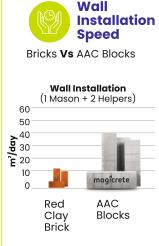


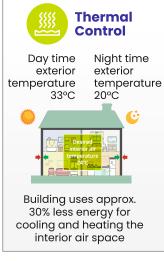
Launch of **Magicrete AAC Wall Panels** - a significant shift in wall construction built using European Technology.



Advantages









Fire Resistance

Magicrete AAC Blocks provides a fire rating of 4 hours for Thickness of 150 mm.

This makes it one of the best building materials available in the market.



Absorbs strong impacts.
Withstand harsh weather conditions without cracking.



Acoustic Insulation

Magicrete AAC Blocks provides extraordinary defense against noise pollution. The sound reduction index is more than 40 dB.

Thickness (mm)	75	100	150
STC rating (dB)	40	43	46

- With 3-4 mm skim coat
- For 52 dB, ,install gypsum board (12.5mm) with stud framing on both sides.



Space Saving

Better option to use thinner internal walls, 75mm instead of 100 mm and as a result there is an increase in floor space area upto 2%.



It is easy to chisel, cut & core the AAC Blocks, as per requirement.

Why Magicrete AAC Blocks?



Weighs **1/3**rd of clay bricks, leads to steel structure reduction upto **15%**



High thermal insulation: Save upto **30%** on AC / Electricity cost.



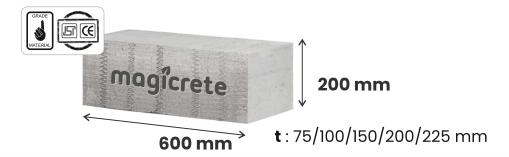
4X faster construction



Honeycomb structure provides highest strength to weight ratio. Compressive strength: 4N / mm²

Technical Specification

PARAMETER	VALUE
Density (Oven Dry)	550-650 kg/m³
Compressive Strength	4N/mm²
Modulus of Elasticity	2040 N/mm²
Coefficient of Thermal Expansion	8.1 x 10 ⁻⁶ K ⁻¹
Water Absorption (at equilibrium)	8%
Thermal Conductivity (K value)	0.16 W/(m.K)
Drying Shrinkage	0.04%
Fire Resistance	4 Hrs. (for 150 mm wall)
Sound Transmission Class Rating	43db (for 100mm wall)



- *Above mentioned dimensions are available at Navsari unit & Wada unit.
- *AAC Blocks of dimensions 625 mm x 200 mm x 100/150/200/225 mm are available at Jhajjar unit.

Walling Material Comparison







PROPERTY	RED BRICK	CONCRETE BLOCK	AAC BLOCK
Material Composition	Top Soil	Cement + Water + Sand and Gravel.	Fly Ash + Gypsum + Lime + Cement + Aluminium powder
Water Absorption	High	Average	Low
Pest & Termite	High	None	None
Dry Density	1800-2000 kg/m³	2500 kg/m³	550-650 kg/m³
Earth Quake Resistance	Low	Low	Highest in the category
Wastage due to Breakages	High 10 to 12%	Minimal (1-3%)	Minimal (1-3%)
Fire Resistance (6" wall)	2 hours	3 hours	4 hours.
Energy Saving	Low	Average	High (30% less electricity consumption on HVAC)
Thermal Conductivity (K value)	0.81 W/m².K	2 W/m².K	0.16 W/m².K

Quick Facts



AAC Blocks consists **80% air** by volume, making it lightest available walling material (weighs 1/3rd that of clay bricks).



It is further strengthened by high pressure steam curing in **Autoclaves.**



Formed as a result of reaction of aluminum on a proportionate blend of lime, Cement & Fly ash, the hydrogen gas that escapes creates **millions of tiny air cells** giving it a strong **Honey comb** like structure.

Say no to the hassle & expense of Bond Beam/Coping

Switch to







Magicrete Power Mesh serves as a bed joint reinforcement used in horizontal AAC masonry joints. Reinforcement within AAC masonry amplifies the lateral stability of walls, diminishes occurrences of thermal cracks, and boosts flexural strength by over double the original capacity.

According to IS:6041-1985 code of practice for the construction of AAC Blocks Masonry, providing horizontal joint reinforcement is essential to prevent cracks in masonry.

Comparison of flexural strength of Unreinforced Masonry, Steel Wire Reinforced Masonry & Magicrete Power Mesh Reinforced Masonry





c = Magicrete Power Mesh Reinforced Masonry

Citation: Piekarczyk, A.; Flexural strength of AAC masonry with bed joint reinforcement. ce papers. 2018; 2:389-396 https://doi.org/10.1002/cepa.887



Benefits



Enhanced Strength



Better Bonding



Easy Workability



Crack Control



Cost-Effective



Impact Resistance

*For optimal results, it is recommended to use Magicrete Power Mesh along with Magicrete Block Joining Mortar.

Block Joining Mortar



PACKAGING: 30 Kg & 40 kg bag

Technical Specification

PARAMETERS	SPECIFICATIONS
Appearance	Grey Powder
Water Required	35%
Pot Life	~1.5 - 2 hrs
Curing	Not required
Tensile Adhesive Strength	>0.41 N/mm² (as per ASTM - C1660)
Coverage	170 - 180 sq.ft (for 4" thick blocks)

Features:

- High bond strength
- No shrinkage cracks
- High thermal insulation
- Shock & impact resistant
- Superior adhesion
- Excellent compressive & tensile strength

Technical Specification

PARAMETERS	SPECIFICATIONS
Appearance	Greyish Granular Powder
Maximum Aggregate Size	<3 mm
Bulk Density	1.5 - 1.6Kg/I
Compressive Strength (28 days)	>9 N/mm²
Flexural Strength (28 days)	Min 1.8 N/mm²
Water Retentivity	Min 95% (EN 1015 - 8)
Coverage	18-20 Sq.ft./40 kg Bag (for 10-12mm thickness)
Thickness of layer	Max 12mm per coat
Pot life	1.5-2 hours
Proportion of water	17-19% as per weight

Features:

- High strength
- Crack free wall

- Faster application
- Excellent coverage

Readymix Plaster



PACKAGING: 40 kg bag

Wall Putty



PACKAGING: 20 Kg & 40 kg bag

Technical Specification

PARAMETERS	SPECIFICATIONS
Appearance	White Powder
Initial/Final Setting Time	270/300 Min
Tensile Adhesion Strength	>1.0 N/mm²
Compressive Strength	8.5 N/mm²
Flexural Strength	2.1 N/mm²
Water Retentivity	99.60%
Pot Life	90-100 Min
рН	9.2-10.1
Coverage	12-15 Sq.ft/kg depending on wall finish

Features:

- No shrinkage cracks
- Protects expensive paint from flaking, dampening and peeling off
- Reduces paint consumption
- Superior paint finish
- Strong bonding

WallPRO



PACKAGING: 4 Ltr & 20 Ltr Pail

Technical Specification

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PARAMETERS	SPECIFICATIONS
Appearance	Single Component Emulsion
UV Resistant - 1000 hrs	No Defects
Exposure Drying Time	30 min
Gravity	1.31-1.35
Algae and Fungus Resistant	No Growth
Crack Bridging Ability	Upto 2 mm wide
Tensile Strength	1.5 N/mm²
Adhesion Strength	1.0 N/mm²
Elongation	>100%
Water Permeability	6

Features:

- Excellent waterproofing
- Resistant to UV degradation
- Bridges cracks up to 2 mm width
- Improves tensile adhesion strength
- Anti-carbonation
- Highly flexible
- No shrinkage cracks

Technical Specification

PARAMETERS	SPECIFICATIONS
Appearance	Liquid white tinted primer
Specific Gravity (@27°C)	1.28 ± 0.01
Solid Content	>50 %
Tensile strength (ASTM D412)	≥ 2.0 N/mm²
Efflorescence resistance	No efflorescence observed on paint film
Resistance to water	Passes
Accelerated Weathering (@ 500 hrs UV exposure)	Passes

Features:

- Efflorescence barrier mechanism
- Penetrating primer
- Excellent adhesion

- Anti-fungal
- · Alkali resistance

PrimeKote



PACKAGING: 4 Ltr & 20 Ltr Pail

CrackPRO



PACKAGING: 1 kg Pail

Technical Specification

PARAMETERS	SPECIFICATIONS
Specific Gravity (@ 27°C)	1.40 ± 0.02
Service temp range (@ 30°C)	-15 to +80
Non Volatile Content	>70%
Vertical slump.	Nil
Movement accommodation factor	+ 10%
Extension recovery	Min 75%
Water resistance	Excellent
Freeze / thaw stability, cycles	Passes 5
Volume shrinkage	20%
Tack free time	30 - 40 Mins

Features:

- Non-shrink
- Superior mechanical strength
- Water resistant

- Highly flexible
- Strong adhesion

Approved By















Esteemed Clientele

































Project Gallery

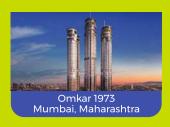




















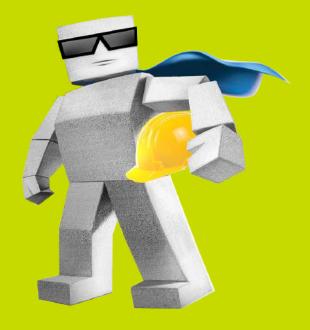












Magicrete Building Solutions Pvt. Ltd.

Registered Office Address:

401, Sunil Enclave, Opp Guru Nanak Petrol Pump, Pereira Hill Road, Andheri (East), Mumbai - 400069 (MH) For more information visit our website www.magicrete.in In case of customer complaints contact 80 70 40 80 10

Or Email us on info@magicrete.in

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