

THE FUTURE OF
SUSTAINABLE
CONSTRUCTION



NXT Walling Solution



PRODUCT
CATALOGUE

 www.bigbloc.in

Our Core Values



SUSTAINABILITY

Focus on reducing the environmental impact through innovative products and processes



INNOVATION

Emphasis on research and development to drive innovation in construction materials



INTEGRITY

Conducting business with honesty, transparency, and ethical practices



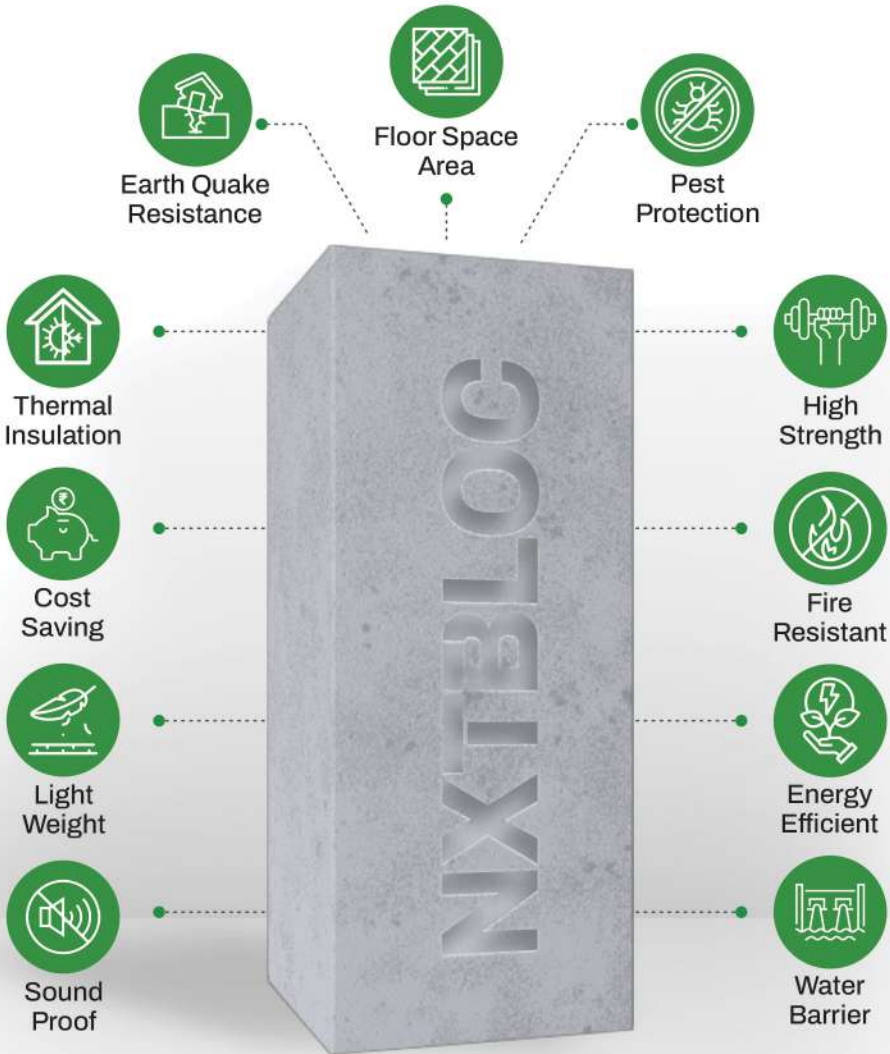
COLLABORATION

Fostering teamwork and collaboration internally and with external partners

Who We Are?

BigBloc Construction stands as a paragon of innovation and sustainability in the construction industry, committed to transforming conventional building practices through its environmentally conscientious, high-calibre, and economically viable solutions. With a constant dedication to perpetual innovation, we strive to uphold the pinnacle of quality and safety standards, thereby delivering exceptional value to our discerning clientele, esteemed stakeholders, and the broader environment.





AAC (Autoclaved Aerated Concrete) consists of a mixture comprising sand or pulverized fuel ash (PFA), cement, lime, and an aeration agent. It undergoes steam curing at high pressure in autoclaves, resulting in a product that achieves both physical and chemical stability. On average, its density is about one-fifth of normal concrete and one-fourth of clay brick.

**WHY
NXTBLOC ?**

3 X

**Lighter Construction
then brick**

4 X

**Faster
construction**



**Weigh third of a
clay brick structure,
results in a**

20%

**reduction in steel
utilisation and
cost savings.**

25%

**Reduction in air conditioner
load and 25-30% less
electricity consumption
on HVAC.**



TYPES OF AAC BLOCKS

FLY ASH AAC BLOCKS

Superior green solution with lighter weight and best in compressive strength. Porous structure of it allows for superior fire resistance. It is an eco-friendly replacement for conventional red clay brick in all aspects governed by IS Norms



FLY ASH



Cement



Lime



Gypsum



Aeration Agent

SAND-BASED AAC BLOCKS

A Lightweight, Smooth finish, High-insulating, Durable building product, which is produced in a wide range of sizes and strengths. Compared to the red bricks AAC blocks are three times lighter.



SAND



Cement



Lime



Gypsum



Aeration Agent

AAC BLOCKS AND FLY ASH AAC BLOCKS ALLOWS



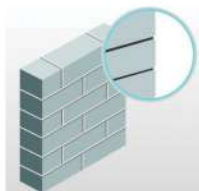
Nails can be put with normal hammer



Small grooves and chases for services can be cut with a manual chasing tool.



Block can be drilled to provide electrical socket



Take coping above 1.2 mtr height



Sr. No.	Parameters	AAC Block	Bricks
1	Size	600 x 200 x (50-300) 625 x 240 x (50-300) 650 x 240 x (50-300)	225 mm x 100 mm x 65 mm 230 mm x 75 mm x 115 mm
2	Precision in Size (Variation)	1.5 mm (+/-)	5 to 10 mm (+/-)
3	Compressive Strength	3.5-4 N/mm ² (Mpa)	1.5-2.0 N/mm ² (Mpa)
4	Density Range	550-650 kg/m ³ (oven dry)	1800-2000 kg/ m ³
5	Fire Resistance (6" Wall)	3.5-4 Hrs	2 Hrs
6	Energy Saving	High (~25 reduction in AC Cost & 25-30% less Electricity Consumption on HVAC)	Low
7	Thermal Conductivity (K Value)	0.16 W/m ² .k	0.81 W/m ² .k
8	Sound Transmission Rating	40-43db for 100mm wall	More than 32db for 100 thick wall
9	Speed of construction & Labour Output	4x Faster Construction	Comparatively lower
10	Moisture Resistance	High	Low
11	Water Absorption Coefficient in Kg/ m ² x h ^{0.5}	4-6 (no continuous pores and capillaries)	2-30 (suction through continuous capillary action)
12	Earthquake Resistant	High	Low
13	Wastage Due to Breakages	Minimal (1-5%)	Approximate 10 to 15%
14	Pest & Termite Resistance	High	Low
15	Fume Resistance	High	Average
16	Drying Shrinkage	0.04%	0.80%
17	Thickness of Mortars	3-4 mm thickness layer	10-12 mm thickness layer
18	Structural cost	Steel saving up to 15% & Concrete saving up to 7%.	Zero saving Benefit

NXTFIX[®]

BLOCK JOINTING MORTAR

NXTFIX mortar is a semi-premix high-quality mortar for the jointing and bonding of AAC blocks. NXTFIX mortar semi-premix consists of cement, graded sand and specialised polymers which combine to give superior strength, water retention and stability. It replaces the conventional method and material of jointing mortar which requires a 12-18 mm thickness with a revolutionary 2-3 mm joint thickness. NXTFIX mortar only requires the addition of water before application to prepare the product for use, reducing the hassle of measuring and maintaining various individual elements to create a conventional mortar.



FEATURES & BENEFITS



HIGH BOND STRENGTH

Special polymer imparts high adhesive strength increasing overall masonry strength & load bearing capacity.



NEGLIGIBLE SEEPAGE

Due to the texture Chemical bond and properties of NXTFIX mortar, seepage water penetration through joints is negligible.



ECONOMICAL

Quantity of NXTFIX required is 3 times less than conventional mortar



NO CURING REQUIRED

Due to water retention polymers, curing is not essential after application



SEMI PREMIX

NXTFIX Mortar are semi-premix solutions which only require the addition of water prepare for application



EASY APPLICATION

Reducing the hassle of mixing various raw materials, saves the wastage and ensures the higher flow ability and water retention properties.

PRODUCTS CHARACTERISTICS & TECHNICAL SPECIFICATION

Sr. No.	Parameters	Specification
1	Appearance	Grey Powder
2	Composition	Cement, fine graded aggregates & special additives
3	Open time	≥ 30 minutes
4	Pot Life	~1.5 to 2 Hrs
5	Water Required	Upto 35%
6	Water Retentivity on AAC	95-100%
7	Compressive strength	≥6 N/mm ² to ≥8 N/mm ²
9	Tensile Adhesive Strength	> 0.41 N/mm ² (As per ASTM - C1660)
10	coverage	110-120 Sqft
11	Curing	not required
12	Packaging	40 KG



NXTPLAST[®]

READY MIX PLASTER

NXTPLAST Ready Mix Plaster is a ready mix cement plaster with high-quality polymer additives to substitute for the traditional site mix wall plaster process. The solution consists of processed sand which is graded and distributed as per particle size and proportionately mixed, cement and water-soluble polymers which act as additives. The application method requires mixing of water before application and the mix is ready for plastering. NXTPLAST Ready Mix Plaster can be used for both external and internal plastering.



NXTPLAST Ready Mix Plaster can be applied on:

- AAC Block Walls
- Fly Ash Block Walls
- Concrete Block Walls
- Clay Brick Walls
- Stone Walls
- Concrete Surfaces

FEATURES & BENEFITS



HIGH STRENGTH

High compressive and tensile strength increases masonry strength and load-bearing capacity.



ECONOMICAL

It provides smooth finish walls even in a single coat. Hence saves time and cost required for putty coating.



PREMIXED

No site mix and blending of powder is required. Only water is to be added.



EASY APPLICATION

The material is pre-mixed and only water has to be added on site. This makes the process of plastering much easier and quicker.



MINIMUM CRACKS

Shrinkage cracks are minimised as premix plaster raw materials are tested and accurately mixed with specific particle size and quantity.



FINISH

Surface finish after application is excellent and equal due to best particle size grading, hence maximizing wall plaster performance.



MINIMUM WASTAGE

The wastage caused in the conventional site mix process while sand sieving and mixing material is totally avoided.

PRODUCTS CHARACTERISTICS & TECHNICAL SPECIFICATION

Sr. No.	Parameters	Specification
1	Appearance	Grey Powder
2	Maximum Aggregate Size	<3 mm
3	Bulk Density	1.5 - 1.6 Kg/l
4	Compressive strength (28 days)	> 9 N/mm ²
5	Flexural Strength (28 days)	Min. 1.8 N/mm ²
6	Water Retentivity	Min. 95% (EN 1015 - 8)
7	Coverage	16-18 sq. ft (10-12 mm Thickness)
8	Thickness of Layer	~12 mm Thickness
9	Pot Life	1.5 - 2 hours
10	Proportion of Water	17-19% as per weight

Ingredients: Graded River Sand, OPC 53 Cement, Fly Ash, Hydrated Lime, Performance additives & Glass Fibre.

SAFETY

PRECAUTION

- This product is non-toxic and non-hazardous.
- Use of gloves, dust mask and goggles is recommended.
- In case of contact with skin/eyes, wash with plenty of clean water.
- In situations of prolonged irritation, professional medical aid should be sought.

"The information provided in this document results from our knowledge of the products and our experience. On-site results may vary, in particular, according to the product application methods adopted. Where application methods not covered by this document are used, customers must request specific additional information and/or carry out a representative test before using the products. The above-mentioned information in no way constitutes a warranty relative to the use of the products. Our general terms and conditions of sale shall prevail, in any event, on the information provided in this document. Prior to application, customers and users are requested to check that they have the latest version of this document."

OUR CLIENTS



LODHA
BUILDING A BETTER LIFE



Sunteck



Raymond REALTY
On Demand



adani
Realty



PRAMUKH
A CLASS OF ITS OWN



OBEROI
REALTY



CLOUD9



NAKSHATRA

SHIVALIK
BUILDING LANDMARKS SINCE 1999



SHIRKE

CHAVDA
SINCE 1990



HI-TECH



SHREE BALAJI
AGORA
MALL





NXT WALLING SOLUTION



CORPORATE OFFICE

908, Rajhans Montessa, Dumas Road, Magdalla, Surat - 395 007, (GJ) India.



REGIONAL OFFICES

609-610, A Wing, Corporate Avenue,
Sonawala Road, Goregaon (E)
Mumbai - 400 063 (MH) India.

620, 6th Floor, Gala Empire,
Opp. TV Tower, Drive Inn Road, Thaltej,
Ahmedabad - 380 052 (GJ) India.



MANUFACTURING PLANTS

UNIT 1

Survey No.:279/7, Paikee 1,2, Manda-
Khatalwada, Khatalwada, Umargaon,
Dist.: Valsad 396 120 (GJ) India.

UNIT 2

Survey No. 378/373/380, Savli Village,
NR. Kapadwanj, DI: Kheda, Godhara
Highway, Nadiad - 387 620, (GJ) India.

UNIT 3

Survey No-94, Pandhare Pada, Wada
Manor Road, Savli Village, Tal: Wada,
Dist : Palghar, 421 303 (MH) India.

For More Information contact us or Visit our Website



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