

EN	C1
IS	TYPE- 1

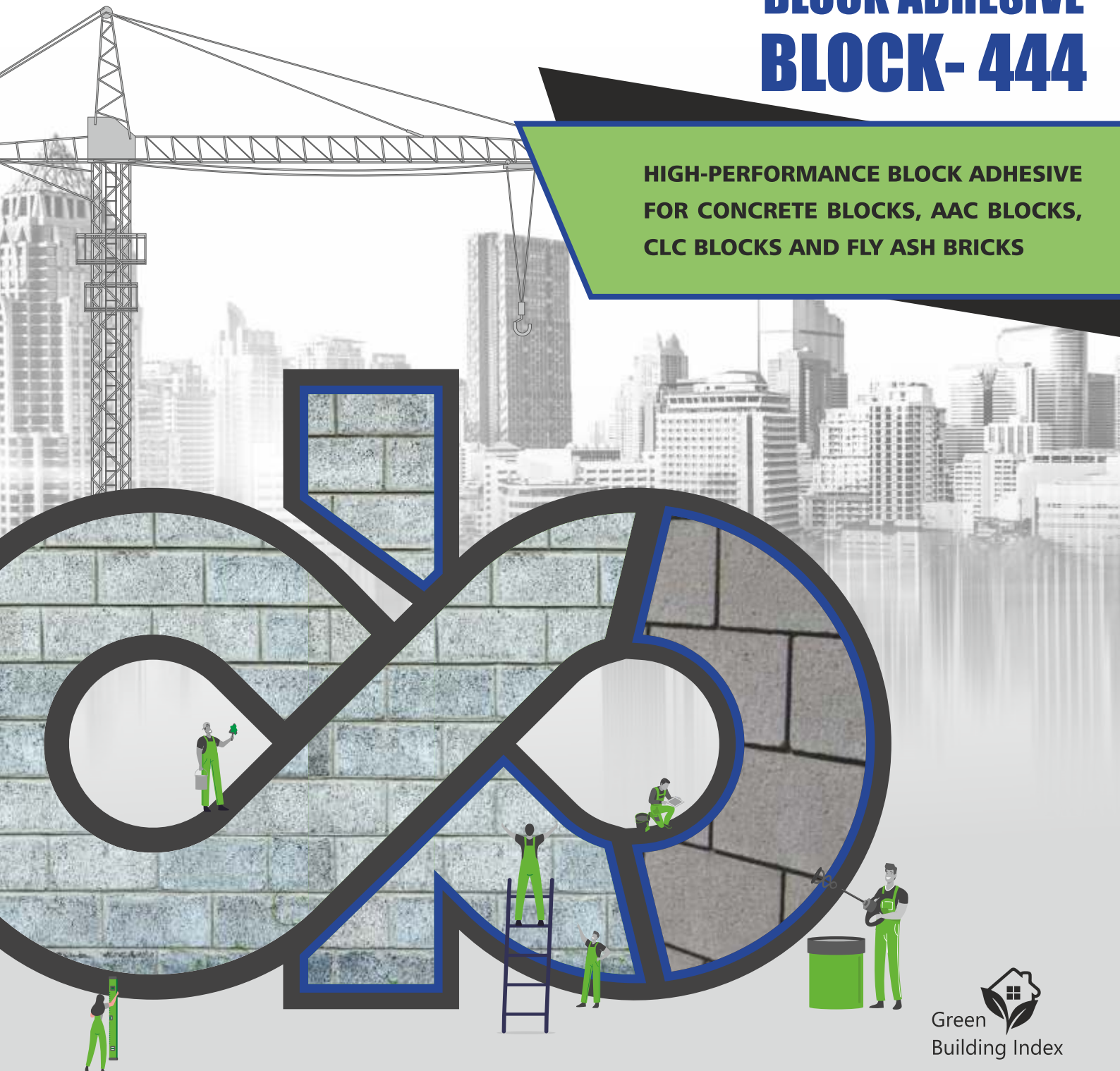
ISO 14001 : 2015
ISO 9001 : 2015

OMMOLL

FIXING SOLUTIONS

BLOCK ADHESIVE BLOCK- 444

HIGH-PERFORMANCE BLOCK ADHESIVE
FOR CONCRETE BLOCKS, AAC BLOCKS,
CLC BLOCKS AND FLY ASH BRICKS



Green
Building Index

BLOCK ADHESIVE

BLOCK- 444

Compliance & Certifications – IS NORMS, ISO 14001: 2015, ISO 9001: 2015

Application: Adhesive for fixing of AAC block, Concrete block, CLC Block & Fly ash bricks

BLOCK- 444 is an Eco friendly, Cementitious modified Adhesive made out of high quality mineral, ready to use adhesive for fixing of all kind of AAC blocks, CLC blocks, Concrete blocks & Fly ash bricks.

Features & Advantages of BLOCK- 444 Adhesive

- Guaranteed fixing for all type of AAC blocks, Concrete block & CLC blocks.
- Use with minimum thickness of 2 mm to 6mm
- Very high coverage compares to conventional block jointing mortar.
- High strength once fully dry and can be used up to full room height for fixing of AAC blocks.
- Provides strength of Type 1 adhesive as per IS norms.
- No water curing required.
- Prolonged workability and adjustability.
- Easy to use. Single component, just add water
- Provides high bonding strength
- Low VOC and suitable for green building.

Suitable Areas

- For Internal and External area.
- Best for Residential & commercial applications.
- Best for Industrial Infrastructure.

Suitable Surfaces

- Fully cured absorbent concrete, IPS or PCC floors.

Suitable Covering Material

- AAC blocks/ CLC blocks
- Concrete blocks & hollow blocks.
- Fly ash bricks & machine cut bricks.

BLOCK- 444



Product not to be Used

- On non-absorbent concrete and other rigid cement surfaces.
- On metal, wood, rubber and on cement board.
- On non-absorbent surfaces.
- More than 6 mm.
- Over expansion joint or in area with extreme movement.



Required tools for Application

- Electric low speed mixing stirrer.
- Use Ommokoll quality trowel as per adhesive thickness required.
- Other materials such as mixing trowel, bucket, brush, broom, measuring tape etc.

Tools Cleaning

- When material is fresh, all the tools can be cleaned with normal water. Once material is hardened, the material can be removed only by mechanical means.

Preparation of Surface

- Make sure that screed / plaster surface is clean and free from any debonding agents and from damp rising material such as oil, grease, dust etc.
- Ensure that AAC block or brick are clean and free from dust.
- First clean the surface, splash required water and let it surface dry to improve the workability, spread ability of adhesive.
- Follow concrete expansion joint and connection joint as per standard.

Mixing Treatment

- Mix **BLOCK- 444** of 40 kg. Powder with approx. 28% to 34 % lt. of clean water. Use slow speed electric stirrer to have good results. Avoid manual mixing as it can compromise performance of adhesive.
- Mix water as per ambient temperature and dryness of surface. Final mixture must be in workable adhesive.

How to Apply

- Moist the surface of block with water before applying the adhesive. Once surface is moist, spread the adhesive onto the surface of block with help of notched trowel in thickness of 3 mm.
- Once adhesive is applied, fix the blocks onto adhesive before skin formation and press firmly. In case adhesive dry too fast due to surface absorption of block and windy surround, then apply at a time in small areas of block surface.
- Leave appropriate space between concrete wall and blocks to accommodate surface movement. Fill the joint with correct sealant or flexible material.
- Once adhesive is fully cured, apply the plaster or any other covering



BLOCK-444



Product & Working Data

Packing	: 40 Kg
Colour	: Grey powder
Shelf life	: 12 months from the date of mfg.
Water ratio	: Approx. 28 % to 34 % Lt. for 40 kg.
Pot life	: 2 hours
Thickness	: Minimum 3mm
Open Time	: 20 minutes
Adjustability	: 20 minute
Initial setting	: 3 to 5 hours.
Final setting	: 24 hours.
Foot Traffic	: After 24 hours.
Application temperature	: + 5° C. to + 42° C.

(Data @ 23°C. & 50% humidity)

In Compliance with EN norms 12004			Requirement
Tensile Adhesion (porous surface)	: 1.05 N/mm ²	: As per EN 1348	1.00 N/mm ²
Tensile Adhesion after heat cycle	: 0.65 N/mm ²	: As per EN 1348	0.55 N/mm ²
Tensile Adhesion after water immersion	: 0.75 N/mm ²	: As per EN 1348	0.66 N/mm ²
Tensile Adhesion after Freeze - thaw cycle	: 0.60 N/mm ²	: As per EN 1348	0.52 N/mm ²
(Final result @ 28 days, 27 C. & 65% Humidity)			
In Compliance with IS 15477-2019:for Type 1 Adhesive			Requirement
Tensile Adhesion (Dry Condition)	: 1.50 to 1.60 N/mm ²		1.0 N/mm ²
Sheer Adhesion (Dry Condition)	: 1.25 to 1.35 N/mm ²		1.2 N/mm ²
(Final result @ 28 days, 27 C. & 65% Humidity)			

BLOCK-444



General instructions

- Once bags are open, entire material must be consumed within 24 hours. Store the bags in safe environment.
- In case of very weak cement surface, please ensure that proper strength or correction are done before use of adhesive.
- If temperature is more than 42° C., than avoid using the products under direct sun.
- In case temperature is cold and below 5° C., the initial and final setting may affect.
- Expansion & connection joint must be followed of concrete and all other elements of concrete structure.
- For any structure related issue, follow local code and appropriate consultant guidelines.
- In case the performance of Ommokoll products are not as per technical data mentioned, please call Ommokoll technical helpline No. +91 917504897.

Safety Warning

Wash eyes with lot of water in case contact with material

Technical Help

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