

# HIND BLOCK FIX

READY TO USE CEMENTITIOUS BASED BLOCK FIXING ADHESIVE



## DESCRIPTION

**Hind Block Fix** is a ready to use, self-curing and non-shrink block fixing compound, blended carefully and formulated to a perfect adhesive, based on Portland cement, graded aggregates and polymers. By addition of water a high strength thixo-tropic mortar is obtained which is used for laying of Fly Ash bricks, Aerated light weight concrete, cement & hollow blocks and Cellular concrete blocks. Plaster to a thickness of 12mm can also be achieved with **Hind Block Fix** to cover up the block work surface and it meets all Standards Nationally as well as Internationally. It conforms to **ANSI A118.1 & ANSI A118.4 (1999), EN-1348 & ASTM C 1660-09**.

## USES

For preparation of a thin bed adhesive for fixing of AAC, ALC and cellular concrete blocks both for interior and exterior use.

## ADVANTAGES

- Easy to use, only water to be added & long working time makes work to be carried at a fast pace and is very economical.
- No curing is required after block fixing work is done.
- Possess the unique property of getting self cured.
- High Strength and perfect adhesion between two blocks.
- Flexible, shock and impact resistant.
- Good mechanical strength. (Bond strength, compressive & tensile strength)
- Thinner joints with high adhesion are achieved contributing to the load bearing capacity of the masonry.

## SUITABLE SUBSTRATES

- Concrete Blocks
- Cement Mortar Blocks/Bricks
- Concrete hollow blocks
- Aerated Light weight blocks
- Cellular concrete blocks
- Fly Ash Bricks

## APPLICATION

All surfaces should be sound, clean and free from any contamination like grease, oil, loose particles etc. and structurally sound. Uneven and rough surface should be made smooth before to application of **Hind Block Fix**. It can be applied on damp surface also, but not in Wet conditions. All slabs must be plumb and true and should be within  $\frac{1}{4}$  inch (6mm) in 10ft (3mm). Prior to start block work to be check that block should be Dry, Clean and almost level surface. Don't use full Wet conditions of block specially in monsoon period it should be protected from rain. If any Expansion joints are observed it should not be covered with the mortar and treatment to be done as per technical specification mentioned in the drawing.

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## Mixing:

For **40 Kg Pack of Hind Block Fix** add **10.0 – 12.0 Litre** of potable water. The water should be taken in a container and **Hind Block Fix** to be added to the water slowly and mixed with hand or a slow speed paddle mixer for **4-5 minutes** to obtain a lump free smooth thixo-tropic mix of trowel able consistency. Water can be reduced or increased slightly to achieve desired consistency.

The substrate over which the blocks are to be laid should properly cleaned from all loose particles before placing the mortar. The mortar is placed on the block work in thin layers of 2mm – 3mm with a trowel and the next layer of blocks are placed over it. The joints between the blocks are maintained as per the requirements and to be filled with the mortar by using a trowel. Plumbing is done to maintain the verticality of the wall.

## Smoothing over the Block work:

Application of a bonding layer of **1mm -2mm thick** of **Hind Block Fix** is to be done using a trowel and pressing it downwards before placing the mixed mortar. Finally using Hind Block Fix Adhesive of 8mm-10mm thickness it is smoothened with a wooden/rubber float or sponge.

**Cleaning:** Cleaning of all tools used to be washed with clean water before it gets dried.

## PROPERTIES

Aspect	Grey Powder
Wet Density	1680 Kg/m <sup>3</sup>
Pot life @27°C	1.30 hour
Open time @25°C	30 minutes
Time to Plaster	24 hours
Compressive Strength (at 28days)	3.3 - 4.2 N/mm <sup>2</sup>
Flexural Strength	2.0-3.5 N/mm <sup>2</sup>
Tensile Adhesion Strength (at 28days) EN 1348	0.75 N/mm <sup>2</sup>
Splitting Tensile Strength (at 28days) ASTM C 1660-09	0.4-0.5 N/mm <sup>2</sup>
Shear adhesion	1.0 N/mm <sup>2</sup>
Volatile Organic Content (VOC)	19.9 gm/lit

Please note that Specifications are subject to change without notification. Results shown are typical but reflect Test procedures used. Actual field performance is subject to depend on installation methods and site conditions.

## COVERAGE

Coverage is dependent on the smoothness and evenness of the substrate, block size used and thickness of the mortar used in laying the block. A guide to the coverage is appended for reference purpose when 30 % water is added to the powder.

**Average Coverage based using AAC blocks for wall construction for 3mm thickness.**

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AAC Block Size (mm)			Wall Area Coverage		
Length	Height	Thickness	(Sq. Ft/40 Kg)	(Sq. M/40 Kg)	(Cu.M/40 Kg)
600	200	75	177 - 186	16.40 - 17.25	3.28 - 3.45
600	200	100	151-160	14.00-14.80	2.80-2.96
600	200	125	140-147	13.00-13.60	2.60-2.72
600	200	150	130-140	12.10-13.00	2.40-2.60
600	200	175	119-130	11.00-12.00	2.20-2.40
600	200	200	78-84	7.20-7.80	1.75-1.95
600	250	200	76-84	7.00-7.80	1.75-1.95
600	300	300	47-50	4.30-4.60	1.29-1.38

## SHELF LIFE

Best before 12 months from the date of manufacture. Should be stored in a cool and dry place away from direct sunlight at temperature ranging between 2°C (Min.) and 35°C (Max.).

## PACKING

40Kg in Poly lined HDPE bags or as required.

## HANDLING PRECAUTION

Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproof membranes. Use a **Hindcon** based Waterproof Membrane when it is required.

## IMPORTANT NOTICE :

Hindcon Chemicals maintains a team of technically trained professionals to provide full support to your problems in construction, and recommend the correct product to suite your specific requirements. Our authorized applicators can attend your site for application of the products. The content of the Technical datasheet are for general information and guideline. The result shown here are generated from our laboratory or from our site experiences.

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