



HIND BLOCK FIX

PRODUCT DATA SHEET

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.

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. All slabs must be plumb and true and should be within $\frac{1}{4}$ inch (6mm) in 10ft (3mm). 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.

Mixing:

For **40 Kg Pack of Hind Block Fix** add **8.0 - 10 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 **3-4 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.

Application as a thin bed mortar for laying blocks:

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 smoothed 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 | 1650 Kg/m ³ |
| Pot life | 1 hour |
| Open time | 30 minutes |
| Time to Plaster | 24 hours |
| Compressive Strength (28 days) | >9 MPa |
| Flexural Strength | >3 MPa |
| Tensile Adhesion Strength (28 days) EN 1348 | >1 MPa |
| Splitting tensile Strength (28 days) ASTM C 1660-09 | > 0.75MPa |
| Volatile Organic Content (VOC) | 19.9 gm/lit |

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.

| AAC Block Size (mm) | | | Coverage Area (Mortar Thickness 3mm) | | | |
|---------------------|--------|-----------|---|-----------------|---|---------------|
| | | | Wall Construction by placing Blocks on Edge | | Wall Construction by placing Blocks on Base | |
| Length | Height | Thickness | (Sq. Ft / 40 Kg) | (Sq. M / 40 Kg) | (Cu. Ft/40 Kg) | (Cu.M/ 40 Kg) |
| 600 | 250 | 100 | 130-160 | 12-15 | 22-26 | 0.60-0.70 |
| 600 | 250 | 125 | 110-130 | 10-12 | 28-32 | 0.80-0.90 |
| 600 | 250 | 200 | 65-85 | 6-8 | 40-45 | 1.20-1.30 |
| 600 | 250 | 250 | 55-65 | 5-6 | 48-52 | 1.40-1.50 |
| 600 | 200 | 75 | 170-175 | 15-17 | 18-20 | 0.50-0.60 |
| 600 | 200 | 100 | 125-135 | 11-13 | 23-25 | 0.65-0.75 |
| 600 | 200 | 125 | 100-110 | 9-11 | 28-30 | 0.80-0.90 |
| 600 | 200 | 150 | 85-95 | 7-9 | 33-35 | 0.90-1.00 |
| 600 | 200 | 175 | 70-80 | 7-8 | 38-40 | 1.00-1.10 |
| 600 | 200 | 200 | 60-70 | 5-7 | 41-43 | 1.15-1.25 |
| 600 | 200 | 230 | 50-60 | 4-6 | 46-48 | 1.30-1.40 |
| 600 | 300 | 200 | 40-50 | 3-5 | 56-58 | 1.55-1.65 |

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 2⁰C (Min.) and 50⁰C (Max.).

PACKING

40Kg in Poly lined HDPE bags or as required.

HANDLING PRECAUTION

Hind Block Fix is non-toxic and ingestion is to be avoided. If contact with eyes occurs, wash immediately with water and seek medical advice.

Note:

- **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.
- Quality of our products are maintained as per ISO9001:2008 recommendations and continuous researches. The behavior can change as per the prevailing conditions at the time of applications.
- Since **HINDCON CHEMICALS LIMITED** has no control over the use to which the users may put the material, it does not claim or warrant that in the user's particular circumstances, the result that the user will obtain from the product will be the same as those described in this communication or that the user will find the information or recommendations complete, accurate or useful. The client must test and ascertain the safety and fitness for the product for use.
- The right to change the properties of the products is reserved with us. The proprietary rights of third parties must be observed. All orders are accepted subject to the terms of sale and delivery. Users must always refer to the most recent issue of the latest Data Sheet for the product concerned, copies of which will be supplied on request.

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