



## HIND FIX MA (W)

### PRODUCT DATA SHEET

#### WHITE CEMENT BASED HIGH PERFORMANCE DEFORMABLE ADHESIVE FOR FIXING OF LARGE FORMAT TILES AND NATURAL STONES

##### DESCRIPTION

**Hind Fix MA (W)** is ready mix white cement based high performance deformable adhesive for fixing of large format Tile and Natural Stones manufactured from white cement, fine graded sand/quartz sand, highly modified polymer and special additives, having an innovative property which prevents emitting low dust during mixing. It makes the working spot comfortable and environment friendly. It qualifies the requirements specified by **Indian Green Building Council (IGBC)** as a green product and conforms to **IS: 15477-2004 , EN 12004, ANSI A 118.4-1999 & ISO 13007.**

##### USES

For the permanent fixing of all sizes and types of Ceramic tiles, Vitrified tiles, Terracotta, Marble & Natural Stones, Indian Marble, Various mosaic tiles and engineered stone over different variety of substrates and on uneven substrates without leveling the floors, interior and exterior bonding of stone material (insensitive to moisture) up to **15mm thickness**. Due to high shear bond properties the product are used for wet areas like swimming pools, sauna and wash rooms. It can also be used on Terraces & Balconies. Excellent spot bonding of insulating material like sound proof panels, corks, polystyrene blocks (expanding type), glass wool and rock. It can also be used for installation of floor or wall covers over substrates on which waterproofing coating is done.

##### ADVANTAGES

- Easy to use, single component, only water to be added.
- Low viscosity, extended open time and adjustability time.
- Excellent water proofing characteristics.
- Self-curing, Perfect bonding and adherence to all materials used for building.
- Long working time.
- Good mechanical strength.
- Usable on a wide range of surfaces except wood, metal, rubber, PVC and Linoleum.

##### APPLICATION

All surface/substrates to receive **Hind Fix MA (W)** must be dimensionally stable according to **IS: 1443 - 2018**. fully cured for 28 days, tough and solid, structurally sound, crack less, free from oil, grease, wax and laitance and should be completely dry. Adequate curing of the cementitious substrates should be done during the hot season to avoid shrinkage after the ceramic tiles are installed. Surface exposed to sunlight and hot is to be cooled by spraying water before installation of tiles. Substrates made of Gypsum and anhydrite screeds must be bone dry, hard, solid and dust free. It is to be abraded and treated with cementitious primer before installation of tiles. Substrates having severe dampness has to be waterproofed before installation of tiles/marbles.

##### Mixing

Mix **Hind Fix MA (W)** with clean water and keep stirring to obtain a smooth and lump free paste. About **7 - 8 Litre** of water is to be added for **20 Kg Packing**. After mixing, the paste to be kept undisturbed for **3-4 minutes** until entrapped air escapes and again restirring is to be done.

Now the material is ready for application. For proper adhesion a thin first layer is to be applied on the substrate by the flat edge of the notched trowel. Immediately after application of the first layer, required thickness of **Hind Fix MA (W)** is to be applied by using suitable notch trowel which will be depended on the type and size of tiles to be installed.

Outdoor application of ceramic tiles on floor and wall of size more than 1000 Sq. cm should be smoothened before installation. For installation of tiles in swimming pools and water-bodies the adhesive should be applied on the back face of the tiles.

For installation of larger sized tiles/marbles to improve the application of the adhesive the consistency can be made more fluid by adding more water.

**Fixing of tiles/marbles**

Tiles/marbles are not required to be made wet before fixing. Tiles/Marbles to be fixed under adequate pressure in order to get an economical coverage of the adhesive.

**Installation of Mosaic Tiles**

The adhesive is to applied on the surface with a notched trowel in scraping motion. V-notched trowel of 4mm to be used to get bed mortar thickness of 1.5-2mm . V-notched trowel of 3mm to be used to get a bed mortar thickness of 1.5mm thickness. Adhesive to be applied onto that much area on the substrate, so that the tiles for that much area is covered within 10-15 minutes time or the adhesive is still tacky. Mosaic Tiles should then be placed and fixed by gently beating with a mallet for 100% full bedding. Tiles should be aligned to achieve uniform joints and allowed to set until fixed. The face of the sheets of front mounted glass mosaic tiles is to be wetted/dampened and the front mount paper removed. After fixing of tiles excess adhesive to be removed from the surface of the tile with a wet cloth/sponge before it get hardened.

**COVERAGE**

**Installation of Ceramic Tiles/Marbles – 1.3 Kg/Sq. Mtr. per mm thickness.**

**Bonding of Panels** - Application with notch trowel (V/rounded notch) - **5.5 - 6.5 Kg/ Sq. Mtr.**  
 Spot Bonding (with trowel) - **4.0 – 6.0 Kg/ Sq. Mtr**

**PROPERTIES**

Aspect	White Powder
Bulk Density (kg/m <sup>3</sup> )	1350 - 1400
Dry Solids (%)	100
Density (Mixed)	1.65 to 1.75 Kg/litre
pH	>12
Pot life	~5 hrs (at +23 <sup>0</sup> C) ~ 3 hrs (at +35 <sup>0</sup> C)
Application Temperature	Ranging between + 25 <sup>0</sup> C to + 37 <sup>0</sup> C
Open Time	≥ 40 min. (at +23 <sup>0</sup> C) ≥ 20 min. (at +35 <sup>0</sup> C)
Correction Time at 23 <sup>0</sup> C (BIII tile)	≥ 15 min.
Trafficable Time (Foot traffic)/grouting of joints (BIa tile)	~ 24 hrs (at +23 <sup>0</sup> C) ~18 hrs (at +35 <sup>0</sup> C)
Grouting in Walls (BIa tile)	~ 24 hrs (at +23 <sup>0</sup> C) ~ 18 hrs (at + 35 <sup>0</sup> C)
Ready for Use at +23 <sup>0</sup> C/+35 <sup>0</sup> C (BIa tile)	Light foot Traffic ~ 2-3 days Heavy Traffic ~ 3-4 days Swimming Pool ~ 14 days (at 23 <sup>0</sup> C)
Volatile Organic Content (VOC)	11.25 – 11.50 gm/lit (Conforming IGBC Norms)

## PERFORMANCE PROPERTIES

NAME OF TEST	TEST METHOD	RESULTS
Tensile Adhesion Strength after 28 days (Concrete/porcelain Tiles)	EN 12004-2	$\geq 2.0 \text{ N/mm}^2$
Shear Adhesion (Dry Condition)	IS: 15477-2019	$\geq 1.5 \text{ N/mm}^2$
Shear Adhesion (Wet Condition)	IS: 15477-2019	$\geq 1.0 \text{ N/mm}^2$
Shear Adhesion (Heat Ageing Condition)	IS: 15477-2019	$\geq 1.0 \text{ N/mm}^2$
<b>Durability Test :</b>		
Adhesion after heat Ageing	EN 12004-2	$\geq 1.0 \text{ N/mm}^2$
Adhesion after Water immersion	EN 12004-2	$\geq 1.0 \text{ N/mm}^2$
Adhesion after Freeze-thaw cycles	EN 12004-2	$\geq 1.0 \text{ N/mm}^2$
Vertical slip	EN 12004-2	$\leq 0.5 \text{ mm}$
Transversal deformation	EN 12004-2	$\geq 2.5 \text{ mm}$
Working Temperature	X	- 30 <sup>0</sup> C to +90 <sup>0</sup> C

## 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<sup>0</sup> C (Min.) and 50<sup>0</sup> C (Max.).

## PACKING

20 Kg. in Poly lined HDPE bags or as required.

## HANDLING PRECAUTION

**Hind Fix MA(W)** is non-toxic and ingestion is to be avoided. If contact with eyes occurs, wash well 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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