

HIND PU MASTERFLEX

TWO COMPONENT PU TILE FIXING ADHESIVE



DESCRIPTION

Hind PU Masterflex is a multipurpose two component Polyurethane thin set adhesive for tiles and Natural Stones for interior & external floors & walls. It is also suitable for various drywall substrates which includes metal. It conforms to EN/ISO with R2T classification.

USES

It is formulated especially for interior and exterior floor and wall installation for all sizes and types of Ceramic tiles, Vitrified tiles, Semi-vitreous tile, precast terrazzo, Glass Mosaic Tiles, Terracotta, Natural Stones, Metal tile, engineered stone (Agglomerates), mesh backed glass mosaics, Stone and Tiles over different variety of substrates and concrete including drywall substrates including metal surfaces and drywall boards.

ADVANTAGES

- Two components to be mixed and used.
- Economic and easy to use.
- High Strength & chemical resistant.
- Excellent bonding to various substrates including metals.
- Waterproof, freeze proof and thermal shock resistant.
- Flexible and heat resistant.

APPLICATION

Surface Preparation

All surface/substrates to receive **Hind PU Masterflex** should be between 4°C to 35°C, dimensionally stable, tough and solid, structurally fully cured for 28 days, tough and solid, structurally sound, crack less, free from oil, grease, concrete sealer, curing compound 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. Expansion joints should be provided through the tile work from all construction or expansion joints in the substrate.

Mixing

Hind PU Masterflex is prepared by mixing Pack A & Pack B from bottom in upward direction using a slow speed (400 rpm/min) agitator/mixer with preset ratio of 1:4 of the packs. Pack A is poured into the Bucket containing Pack B and mixed until a uniform colour mixture is obtained. It is recommended to mix small quantity so that it can be consumed within **1 hour at 25°C** and **Relative Humidity 50%**. Both packs of **Hind PU Masterflex** is to be stored at 25°C for 2-3 days prior to use.

Application

Fixing of Tiles/Stone, Mesh Backed Glass Mosaic Tile & Agglomerates:

The adhesive is applied to the substrate with the flat side of the notched trowel and pressed firmly to work into the surface. Extra adhesive is combed with the notched side. Ensure proper sized notched trowel for full bedding of the tile. The adhesive is to be spread to cover as much of the tile within 10 minutes. Large format Tiles (>12" X 12") should be back butter to provide full bedding and firm support. Tiles are to be placed into wet, sticky adhesive by gently beating with wooden hammer or rubber mallet to imbed the tile and adjusting the level. It is recommended to check adhesive for complete coverage by periodically removing a tile and inspecting bedding adhesive transfer onto the back of the tile. If the adhesive gets dried up or skinned over (not sticky), remove and apply fresh adhesive.

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Installation of Glass Mosaic Tiles (Paper Faced)

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. Glass 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 gets hardened. When the tiles set firm, the face of the sheets of front mounted glass tiles shall be dampened and the face mount paper can be removed.

Installation of Tiles/Stone on Drywall Boards

When installation of tile or stone is done by using **Hind PU Masterflex** on Drywall boards like cement backer board, wood board, plywood board, calcium silicate board, gypsum wall board, it is advised to provide spacers and fill the resulting grout joints with flexible material like Hind Silicon Sealant/Acrylic Sealant.

SUBSTRATES

- Concrete – VDF, Tremix & MIVAN
- Concrete masonry & Brick Masonry
- Cement Moratr Beds & Plaster
- All Types of Tile & Stone.
- Metal floors and walls
- All Types of wood & Plywood
- Gypsum Board
- Cement Terrazzo
- Epoxy & PU based substrates
- All types of plaster board/Cement Backer Board
- WPC (Wood Polymer Composite board)
- Rubber PVC and Linoleum substrates.

PRECAUTIONS

While using **Hind PU Masterflex**, precautions to be followed:

It should not be used on damp surface or whether there is a possibility of rising dampness on the substrate. The packs are pre-measured and should be use as per recommended ratio, otherwise it will cause ocess, damage during curing. Use the products between + 15°C to +40°C.If used when the surface will be immersed in water continuously consult technical tema for assistance,

PROPERTIES

Aspect	Off White after mixing (Part A - Cream Colour & Part B - White Colour Paste)
Mixed Density (kg/m ³)	1650-1720
Dry Solids (%)	100
Density (Mixed)	1.65 to 1.75 Kg/litre
pH	>12
Pot life	60-75 minutes at 21°C
Application Temperature	+ 12°C to + 40°C
Open Time	60 minutes at 21°C
Adjustability	60 minutes at 21°C
Vertical Slip	< 0.5mm

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Foot Traffic	24 hours
Grouting	24 hours at 21°C)
Interval before Normal Use	3days

PERFORMANCE PROPERTIES

NAME OF TEST	REQUIREMENT	VALUES
Tensile Adhesion Strength-Open time not less than 20 minutes (EN 1346)	≥ 0.5 Mpa	2.8 – 3.0 Mpa
Initial Shear Bond (EN 12003, CI 7.3)	≥ 0.2 Mpa	5.2 - 5.5 Mpa
Tensile Adhesion Water Immersion (EN 12003, CI 7.4)	≥ 0.2 Mpa	5.0 - 5.2 Mpa
Shear Adhesion after Thermal Shock (EN 12003, CI 7.5)	≥ 0.2 Mpa	4.0 - 5.1 Mpa
Vertical slip (EN 1308)	≤ 0.5 mm	0.1 - Pass (< 0.5 mm)

Note: Specification are subjected to change without notification. Results indicated are typical but it tested as per test procedure mentioned above. Actual performance depends on installation method and site conditions.

COVERAGE

1.9 to 2.1 Sq.ft per 1 Kg with 1/4" X 1/4" (6mm X 6mm) square notched trowel for a bed thickness of 3mm. Coverage may vary depending on trowel notch size, type and size of tile substrate smoothness and evenness.

SHELF LIFE

Best before 12 months from the date of manufacture. Should be stored in a cool and dry place away from direct sunlight. All Components to be stirred well before use.

PACKING

5 Kg Pack (Part A - 4 Kg & Part B - 1 Kg) & 10 Kg Pack (Part A - 8 Kg & Part B - 2 Kg)

HANDLING PRECAUTION

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

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.

Quality of our products are maintained as per ISO9001:2008 recommendations and continuous researches. The behaviour 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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