



Features

FF DuraFix Rapid is a premium quality rapid setting thin set polymeric cement-based tiles fixing adhesive.

It is particularly useful for all repair works where conventional curing times are not possible to allow. It attains initial adhesion tensile strength required for C2 grade within 6 hours, making it ideal for repair works in areas like driveways. The adhesive is recommended for use of both wall and floor tiling in tile sizes up to 600 mm*600 mm.

The FF DuraFix Rapid by Freeform is made using special purpose cements, additives, selected fillers and high-quality polymer resins.

Key features include:



Rapid Setting & Drying
Fast completion of project



High Adhesion to Substrate
Less peeling off | High bonding



Slight Flexibility in Material
Less cracks | Large panel sizes



Thin Layer Application
Environment friendly



High Strength
High durability | Low maintenance cost



Lower Dimensional Shrinkage
Fewer cracks in concrete



High Consistency of Material
Peace of mind



Low Requirement of Curing
Less supervision required at site



High Bonding
Better adhesion



Extensively Tested at Factory
Quality assured

Application

Can be used for all type of tiles on

- Plastered surfaces
- Concrete
- Light-weight blocks

Suitable for interior and exterior surfaces. It is specially recommended for tile-on-tile job. However, it is not recommended where an extended open time is desired.

Appearance

Single component premixed plaster powder- ready to use with addition of clean water

Specifications

Please refer to page 3

Application Thickness

2 to 12 mm

Output/ Coverage

~1.3 kg/mm/m²

Base Surface Preparation

Base surface should be clean and free of any dust, grease and loose particles or any other material that may restrict adhesion. Any water proofing if required should be completed first.

The surface should be dimensionally stable, and free from any de-bonding agents or rising damp.

Ensure proper flat level of the base as that will be more economical in use. Undulations over 10 mm should be corrected by suitable screed/plaster.

Floor bases must be checked and have a minimum Cohesive Tensile strength of 2.5N/mm² and wall bases must have a minimum Cohesive tensile strength of 1N/mm² for the application.

Waterproofing membranes of polymeric, bituminous, or even cementitious surfaces may require a layer of Screed application before the tiling can take place for proper adhesion.

In case of application on gypsum or anhydrite surfaces, preparation of surface with FreeForm Primer Humiblock is essential. Even for other surfaces, the use of a suitable FreeForm Primer is recommended.

This adhesive is NOT suitable for fixing stones or tiles larger than 1200 mm per side in flooring, or larger than 600 mm in external cladding, or stone and tiles having deforming properties - and so must not be fixed with this adhesive. It may be possible to use the material if enhanced with FreeForm Latex L1- for which instructions should be sought, and adequate trials be made.

Advance testing and trial is necessary in case of fixing natural stone with reinforcement layers of resin coating, polymer mesh, matting, etc. or treatments such as damp courses etc., to check for compatibility and suitability of application.

Application/Installation Method

Prepare the mix by adding to FreeForm FF DuraFix Rapid to the recommended amount of clean water. A suitable mixing time is 3 to 5 minutes depending on the type of the mixing equipment and the quantity. Let the composition stand for 10 minutes and remix again as above. Small amounts can be mixed even manually. Though the pot life of the material is much longer, it is best to use up the mortar mixture within 15-20 minutes from mixing.

- The mortar is spread and firmly pressed on the substrate to be tiled covering up to 1 m at a time.

- The system requires the use of a corresponding size of notched edge spatula to achieve a uniform film thickness and to avoid mortar skin formation. The positions of the tiles can be adjusted within 10-15 minutes after the installation.
- Ensure full coverage of the adhesive on the tile by lifting and checking a recently laid tile/s
- Tiles over 600mm on any side require application of the adhesive directly and completely on the back surface of the tile.
- Give min. 24 hours before grouting.
- Do not apply in temperature below 5°C and above 50°C.
- Do not apply on wood or metal.

Curing

The covered surface should be cured for a period of 3-6 hours by covering only. Avoid direct rainfall or freezing temperatures during the first 6 hours after use.

Open to Traffic

Tiles may be subjected to foot traffic after 6 hours and full cure is assumed to be 1-2 days depending on weather conditions.

Packing

20 kg bag

Shelf Life

6 months from date of packing before opening. Use within few hours of opening. Store carefully away from dampness and moisture.

Technical Support

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Applicable Standards

| Standard | Marking |
|-------------------------|---------|
| As Per EN 12004-1: 2017 | C2FT |
| As per IS 15477: 2019 | Type 3 |

Specifications

| Test Name | Relevant Standard | UOM | Requirement | Result | Meaning |
|--|-------------------|-------------------|--------------------|------------|---|
| Maximum Size of Aggregate | EN 1015-1 :1999 | mm | NA | ≤ 1 | |
| Workable Life | EN 1015-9 :1999 | min | NA | 20 | |
| Final Setting Time | EN 196-3: 2003 | min | NA | ~45 | |
| Initial Tensile Adhesion Strength | EN 12004-2:2017 | N/mm ² | ≥ 1 | Conforming | High adhesion strength |
| *Early Tensile Adhesion Strength | EN 12004-2:2017 | N/mm ² | ≥ 1 | Conforming | Suitable for early opening of traffic |
| Tensile Adhesion After Water Immersion | EN 12004-2:2017 | N/mm ² | ≥ 1 | Conforming | Suitable for wet areas |
| Tensile Adhesion After Heat Aging | EN 12004-2:2017 | N/mm ² | ≥ 1 | Conforming | Suitable for area subject to high temperatures up to 70° C |
| Shear Adhesion Dry | IS 15477:2019 | N/mm ² | ≥ 1.5 | Conforming | Good shear strength—Especially relevant for walls |
| Shear Adhesion Wet | IS 15477:2019 | N/mm ² | ≥ 1 | Conforming | Suitable for wet areas |
| Shear Adhesion After Heat Aging | IS 15477:2019 | N/mm ² | ≥ 1 | Conforming | Suitable for area subject to high temperatures up to 70° C |
| Slip (T) | EN 12004-2:2017 | mm | ≤ 0.5 | Conforming | Thixotropic— Will not slip during fixing—Good for walls |
| Open Time | EN 12004-2:2017 | min | ≥ 0.5 after 20 min | Conforming | Longer use time without loss of strength—Good for exteriors |
| Adjustment Time | IS 15477:2019 | min | ≥ 30 | Conforming | Longer working time |

Disclaimer

Any recommendations for application techniques are based on experiences. It is advisable to adapt processing techniques and material quantities to the given local conditions and we refer in this context to our general terms of sale and delivery.

Health Precautions

Adequately protect hands and eyes. In case of contact with eyes consult doctor immediately

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