



Features

FF DuraFix Rapid + Latex Uni is a premium 2 component thin set polymeric cement-based tiles fixing adhesive.

It is recommended for use of both wall and floor tiling in interiors and exteriors for rapid hardening and drying applications and for special conditions, including those of

a. Stones and tiles susceptible to staining- which require quick drying of substrates

b. All applications requiring quick return to service with challenging materials or substrates like Engineered Stones/Composite marbles or large sized tiles, and substrates subject to heating, vibration, dimensional variations etc. or for tiles susceptible to chemical reactions.

The FF DuraFix Rapid + Latex Uni by Freeform is made using special additives, selected fillers and high-quality polymer resins for such special applications.

Key features include:



High Adhesion to Substrate
Less peeling off | High bonding



Highly 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 Workability
Fast completion of project



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
- Plaster board/ Fibre Cement
- Heated underfloor
- Wood/Ply
- Properly laid waterproofing membranes

Suitable for interior and exterior surfaces. It is specially recommended for quick return to service applications and fast drying applications. Suitable surface preparation is required in many of above cases.

The addition of latex liquid instead of water prevents possible back staining on tiles. They also reduce the effect of chemical reactions, improve adhesion and flexibility to withstand expansion due to stress and differential movement.

Appearance

2 Component premixed plaster powder and liquid latex-ready to use after mixing without addition of water

Specifications

Please refer to page 3

Output/ Coverage

~1.3 kg/mm/m²

Application Thickness

2 to 12 mm

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.

Advance testing and trial are 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 FF DuraFix Rapid to Latex Uni at the recommended ratio per bag of FF Durafix Sure. Do NOT add ant water for mixing. A suitable mixing time is 2-3 minutes depending on the type of the mixing equipment and the quantity. Once consistency is achieved, material should be quickly used as it is fast setting and allows a low workable life. 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 a maximum 10-12 minutes from mixing.

- The mortar is spread and firmly pressed on the substrate to be tiled covering up to 1 m² 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.
- Do not apply in temperature below 5°C and above 35°C.

Curing

The covered surface should be cured for a period of 1 day. Avoid direct rainfall or freezing temperatures during the first 24 hours after use.

Open to Traffic

Tiles may be subjected to traffic next day and after 1 day and full cure is assumed to be 3-4 days.

Packing

25 kg bag + 4.25 litres Latex Uni in bottle

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 S2
As per IS 15477: 2019	Type 4

Specifications

Test Name	Relevant Standard	UOM	Requirement	Result	Meaning
Workable Life	EN 1015-9 :1999	min	NA	30	
Final Setting Time	EN 196-3: 2003	min	NA	~350	
Initial Tensile Adhesion Strength	EN 12004-2:2017	N/mm ²	≥ 1.5	Conforming	High adhesion strength
*Early Tensile Adhesion Strength	EN 12004-2:2017	N/mm ²	≥ 0.5 within 6 hours	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
*Deformability (S)	EN 12004-2:2017	min	≥ 5	Conforming	High transverse bending— Suitable for large format tiles
Adjustment Time	IS 15477:2019	min	≥ 20	Conforming	Longer working time
Latex for Mixing	NA	%	Tbd by manufacturer	17%	

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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