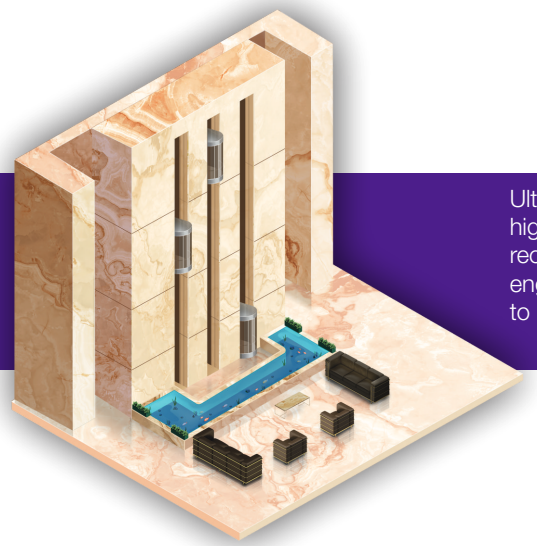
UltraTech TILEFIXO Ultima

Deformable Tile Adhesive

Tile & Marble Adhesive

Also available in white variant as Ulitma White



UltraTech TILEFIXO Ultima is a grey cement-based, polymer modified, high performance, high durability, high-quality deformable tile adhesive recommended to fix all types of large format tiles (except metal tiles & engineered stones) on cement based and dry wall board surfaces subject to deformability. Suitable for both internal and external applications.

Specifications

Technical parameters complies with Type 4TS1 as per IS 15477-2019 and C2TES1 as per EN 12004-2017/ ISO 13007-1:2014.

Areas of Application

UltraTech TILEFIXO Ultima is ideal for thin bed floor and wall applications of all type of large format tiles, marbles and natural stones for interior and exterior floor and wall applications on cement-based substrates like plaster, concrete, screed in dry, wet & submerged areas subject to deformability. It is also used for installation on dry wall board substrates like gypsum boards, calcium silicate boards, medium density fiber boards, fiber cement boards, cement boards, bison panel, etc with pre application of primer.

Features & Benefits

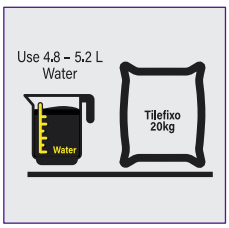
- Excellent adhesion to substrate
- Gel formula for non-sagging in vertical walls
- Self-curing
- Enhances durability
- Flexible tile adhesive
- Extended open time allowing more time for tile fixing
- High slip resistance

Method of Application



Surface Preparation

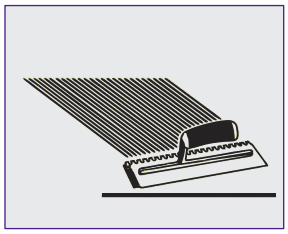
- Prepare the surface and clean the tiles before the application of tile adhesive by removing oil, bond inhibiting agents, dirt, dust and laitance.
- Clean the surface following suitable methods by using wire brush, water jetting, mopping, etc.
- UltraTech BASEKRETE is recommended over vertical surfaces and UltraTech FLOORKRETE for horizontal surfaces to level it in case of higher undulations or for any repair work to attain the flat & levelled surface prior to the application of UltraTech TILEFIXO Ultima.

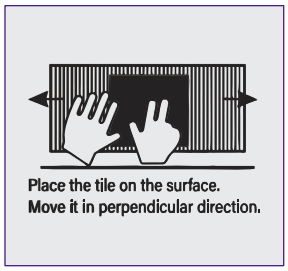


Mixing

- UltraTech TILEFIXO Ultima requires 24-26% potable water by weight of material.
- Add UltraTech TILEFIXO Ultima to the measured quantity of water while continuously stirring using a mechanical stirrer for 2-3 minutes to ensure a thixotropic consistency, homogeneous lump-free mixture.
- Allow the mix to stand for 2 minutes to mature and then mix it again before use.
- Do not add more water to alter the mix consistency or to extend the pot life. Further water addition will hamper the adhesion strength of the tile adhesive.







Application

- Apply the mixed UltraTech TILEFIXO Ultima to the prepared substrate using the appropriate notched trowels according to the size of the tiles.
- It is recommended to use suitable spacers while fixing tiles to ensure uniform tile fixing and creation of joints that can be filled later on with UltraTech TILEFIXO STYLE Epoxy Grout or UltraTech TILEFIXO CG Grout.
- A minimum of 6 mm bed thickness of tile adhesive for walls and floors must be achieved. It is recommended to do back buttering for vertical tile application.
- Lay tiles onto the adhesive. Gently press each tile and move it in perpendicular direction to the notches, to ensure no air cavity remains in mortar and good initial bonding is attained. Do not disturb the tiles until the adhesive has set.
- It is recommended to fix the tiles within 30 minutes of spreading UltraTech TILEFIXO Ultima to achieve adequate bonding as per the technical data provided.
- Any tile fixing after 30 minutes of spreading UltraTech TILEFIXO Ultima will lead to improper adhesion and may result in de-bonding of tiles.
- For vertical surfaces applications, tiling should start from bottom to top.
- For tile-on-tile, tile-on-old cement floor applications, check for cracks and soundness of existing tiles and repair accordingly. Care should be taken to prepare the existing base with adequate interlocking friction effect by removing polish/wax/smooth top layers.

Technical Data

Bulk Density	1150 - 1250 kg/m^3
Water Powder Ratio	24-26% by weight
Pot Life @ 27ºC & 60% RH	3 Hours
Open Time @ 27ºC & 60% RH	30 Minutes
Adjustable Time @ 27ºC & 60% RH	30 Minutes
Usage Time Post Application	24 Hours
Coverage/20 Kg Bag	3.72 Sq. m. @ 6mm (As per lab conditions)

As per EN 12004: 2017 & ISO 13007-1:2014 (C2TES1)

Sr. No.	Technical Parameters	Test Results	Requirements as per EN 12004 & ISO 13007
			C2TES1
1.	Initial Tensile Adhesion (N/mm^2)	1.70 - 1.90	C2> 1.0 N/mm^2
2.	Tensile Adhesion Strength after Water Immersion (N/mm^2)	1.30 - 1.40	C2> 1.0 N/mm^2
3.	Tensile Adhesion Strength after Heat Ageing (N/mm^2)	1.70 - 1.80	C2> 1.0 N/mm^2
4.	Tensile Adhesion Strength after Freeze-Thaw Cycles (N/mm^2)	1.35 - 1.45	C2> 1.0 N/mm^2
5.	Slip (mm)	0.15 - 0.25	≤ 0.5 mm
6.	Deformability (mm)	3.10 - 3.20	>2.5mm to ≤5mm

As per IS 15477:2019 (TYPE 4TS1)

Sr. No.	Technical Parameters	Test Results	Requirements as per IS 15477-2019
			Type 4TS1
1	**Tensile Adhesion (N/mm^2) 28 Days**		
	a) Dry Condition	1.70 - 1.90	Min 1.5
	b) Wet Condition	1.35 - 1.45	Min 1.00
2	**Shear Adhesion (N/mm^2) 28 Days**		
	a) Dry Condition	1.60 - 1.70	Min 1.5
	b) Wet Condition	1.25 - 1.35	Min 1.00
	c) Heat Condition	1.75 -1.85	Min 1.00
3	**Slip (mm)**	0.20 - 0.25	≤ 0.5
4	**Deformability (mm)**	3.10 - 3.20	>2.5mm to ≤5mm

Precautions

- Allow a minimum of 24 hours for the subsequent usage of the areas where tiling has to done. Do not tile if temperature is likely to drop below 5°C or exceed 50°C. For temperature below 20°C allow the adhesive to cure for an extended period of time. Pot life, open time and adjusting time depends on the surface absorption, wind factor, temperature and humidity conditions at site.
- Appropriate mechanical anchoring is recommended as per the stone size and good construction practice.
- Avoid application under direct sunlight.
- The technical data provided in this technical data sheet is as per lab testing conditions and may vary as per the actual method of application at sites.
- Consult UltraTech Building Products Technical Services for any further technical assistance.
- For application on gypsum boards, calcium silicate boards, medium density fiber boards, fiber cement boards, cement boards, bison panel pre application of primer is recommended for better adhesion.

Packaging

20kg

Shelf Life

UltraTech TILEFIXO Ultima has a shelf life of 12 months from the date of manufacture. Store in a cool and dry place.

Safety Directions

- UltraTech TILEFIXO Ultima is non-toxic.
- Use of gloves and goggles is recommended. Any splashes to the skin or eyes should be washed off with clean water immediately.
- In case of prolonged irritation, medical advice should be sought. UltraTech TILEFIXO Ultima is non-flammable.

UltraTech CEMENT The Engineer's Choice BUILDING PRODUCTS

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