

TECHNICAL DATA SHEET

VITRIFIX®

Type-1 VF2000 C1T

Standard Grey

December 01, 2022



DISCRIPTION

VF2000 C1T is a polymer-modified, cement-based tile adhesive designed for indoor use. It's a ready-to-mix product that works perfectly for installing high-porosity tiles like ceramic, natural stone, vitrified, and porcelain tiles on internal floors.

Polymer modified grey cement-based adhesive, suitable for fixing ceramic tiles for floors & walls and AAC/CLC blocks. The set adhesive is water-resistant and is suitable for use in showers and bathrooms. Note: Not recommended for direct use onto gypsum plaster (wall finishes), paint or metal.

STANDARDS: Vitri-fix 2000 complies to the adhesion requirements of BIS Certified IS 15477 : 2019 Type 1 "Specification for Adhesives for use with Ceramic Tiles and Mosaics."

BACKGROUND / BASES

Cement Sand Rendering, Brick Work / Concrete, Cement Sand Screed.

NOTE: Do not use the shower for at least 2 weeks following the completion of grouting

FEATURES

Good bond strength, Water resistant, Easy mixing & application, Easy to use, Ready to Use, Self-curing, Complies to the requirement of IS 15477 : 2019 Type 1.

PROPERTIES (TECHNICAL DATA)

@ 27± 2°C	: Mixed Density 1.80 – 1.85 g/cc
Bed Thickness	: up to 6 mm
Walls	: Use 6 mm X 6 mm square notch trowel
Floors	: Use 12 mm X 12 mm square notch trowel
Mixing Ratio	: 1 p.b.w. Water to 4 p.b.w. (p.b.w = Parts by weight)
Adhesive Open Time	: 10 - 15 minutes
Pot Life	: 3 hours
Setting Time	: 24 hours
Tensile Adhesion	
IS 15477:2004 Type 1	
14 Days Air	: 0.8 kN
Shear Adhesion	
IS 15477:2004 Type 1	: 1 Day Air 3.15 kN 14 Days Air 8.90 kN
Temp. resistance	: -30°C to 150°C
VOC Content	: 0.74 g/L.
Note: *Suitability depends on surface level/flatness Up to 12mm in areas of limited extent.	

COVERAGE ESTIMATES

approx. 50-55 sqft. Per 20kg bag for 3mm bed thickness.

Note: Coverage will depend on the nature and flatness of the surface and the method of application. For good coverage, it is vital that all surfaces are smooth, plumb, level and free from defects and undulations.

APPLICATION INSTRUCTIONS

Substrate Preparation Before starting any work ensure that the base is.

☐ Sufficiently flat to permit the specified flatness of finished tiling, bearing in mind the permissible thickness of the adhesive.

☐ Suitable for tiling in the service conditions to which it will be exposed.

☐ Surfaces to be tiled must be dry, clean and free from loose material and contamination.

AREA OF APPLICATION

Walls, Floors & Wall Tiles, Ceramic Tiles, Up to 6 Feet on interior walls, 2x4 & 6x4 Size Tiles, Interiors, Dry areas, Wet areas, Showers.

SITE WORK INSTRUCTIONS SURFACE CONSIDERATIONS

New Cement Sand rendering/Brick/Block Wall : Before commencing tiling, allow plastered surface to air dry for at least 2 weeks.

New Concrete Bases: Before commencing tiling, ensure that bases have been allowed to air dry for at least 4 weeks Existing Concrete/Screed Bases Cut out all loose or hollow portions and make good with a 1:3 cement:sand mortar applied over a slurry bonding coat* and let it cure and dry for 7 days.

Mixing: Add adhesive to clean water. Mix thoroughly until a lump-free mortar is obtained. A 20 kg bag will require approx. 5 - 6 liters of water to obtain a slump-free consistency. The adhesive is immediately ready-for-use and has a pot life of 3 hours. No further water should be added. Where mixing by weight is not possible, volume mixing can be carried out at site in the ratio of 1 : 4 (water : powder)

APPLICATION

1. Spread not more than the area which can be tiled within the open time of the adhesive.
2. Comb the adhesive to the required depth using a suitable square notch trowel.
3. Press the tiles firmly into position with a slight twisting action, checking periodically that good contact is maintained with the back of each tile. Leave no voids behind tiles.
4. Tiles should be fixed within 15 minutes of adhesive being applied, depending on the porosity of the surface and atmospheric conditions. Tiles can be adjusted up to 5 - 10 minutes after fixing. Touch the adhesive ribs periodically and if a skin has formed, remove the adhesive and apply a new layer.

5. Leave adequate joints between individual wall and floor tiles unless self spacing tiles are used. 6. Clean off surplus adhesive from the tile face and between joints.

Note: ☐ Do not use in damp conditions and temperature less than 5°C

☐ Use suitable clamps along with adhesive at the time of installation of tiles at height of more than 6m.

☐ Leave movement joints at every 3m vertical interval and fill with a flexible sealant as per BS 5385.

SPACERS

Use spacers for uniform joint width.

GROUTING

Grouting should be carried out after 24 hours of tiling. Use the appropriate grouting material from the range of cementations and epoxy grouts.

CLEANING

Tools and containers may be cleaned using clean water when the adhesive is still fresh. The hardened adhesive can be removed from tools mechanically.



Name of excellence a brand of trust.

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HEALTH AND SAFETY

Direct contact with the adhesive can irritate the eyes and may irritate the skin; additionally, overexposure to the product's vapor may irritate the eyes, nose, and throat. You must avoid all eye and skin contact and ensure the workspace has adequate ventilation during use. If eye contact occurs, immediately flush the eyes with water for 5 minutes and seek medical attention. In the event of skin contact, promptly wipe the material from the skin and flush the area with water. As a standard precaution. PRECAUTIONS: Keep out of reach of children. Wear suitable protective clothing, gloves and eyes/face protection. After contact with skin, wash immediately with plenty of clean water. In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice.

PACKAGING

Vitri-fix Type-1 VF2000 C1T adhesive is available in 20 kg bag.

STORAGE AND SHELF LIFE

12 months from the date of manufacturing when stored under normal dry conditions.

NOTE DISCLAIMER

All statements, technical information and recommendations set forth herein are based on tests which we, believes to be reliable. However, we does not guarantee their accuracy or completeness. We cannot assume responsibility for the results obtained by others over hose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In no case will we be liable for direct, consequential economic or other damages.

TECHNICAL PARAMETERS

COLOUR	Standard Grey
WATER DEMAND	1 Water : 4 Adhesive
TIME TO SET PROPERLY	24 HOURS
BED THICKNESS	UP TO 12 MM