

Roff Tile Fix C1TE

CEMENTITIOUS TILE ADHESIVE WITH EXTENDED PERFORMANCE



Description

Roff Tile Fix C1TE is a polymer modified, single component, cement based adhesive suitable for interior and exterior domestic and light commercial use. Roff Tile Fix C1TE is designed to bond most ceramic, porcelain, mosaic and stone tiles in a broad range of applications including wet areas such as showers and wet rooms. Roff Tile Fix C1TE is designed with performance factors such as extended open time and sag resistance.



Typical Applications

- Suitable for glazed and unglazed ceramic tiles, natural stone and mosaic
- Laying ceramic paper-faced or mesh-backed mosaic tiles
- Residential and light commercial
- Laying tiles on substrates and renders with up to 10 mm of unevenness, without levelling them out beforehand
- Floor and wall tiling
- Laying ceramic tiles diagonally or starting from the top and working downwards, without resorting to the use of spacers
- Bonding tiles with highly-ribbed or deep-set backs

Features

- Bonding all types of ceramic tiles (double-fired, single fired, porcelain, clinker, etc.)
- Designed for Middle East Climate
- Economic and reasonable performance
- Excellent performance for general purpose ceramic tiling
- High initial grab and high strength
- Sag resistance for vertical tiling
- Hardens with minimal shrinkage
- Damp resistance

Suitable Substrates

- Walls made of cementitious mortar and of cementitious traditional renders.
- Plasterboard walls when rigidly supported.
- Gypsum substrates after treatment with Roff acrylic primer.
- Floors: cement based screeds and concrete.

Packaging

25 kg bag

TECHNICAL DATA (typical values)

In compliance with: -EN 12004 as C1TE
-ISO 13007-1 as C1TE
-ANSI 118.1

PRODUCT IDENTITY

Type	Powder
Colour	Grey and White
Bulk Density (kg/m ³)	Approx 1400
Dry Solids Content (%)	100

APPLICATION DATA (at 23°C and 50% R.H)

Mixing Ratio	27-28 parts water for 100 parts of Roff Tile Fix C1TE
Consistency of mixture	Very creamy
Density of mix (kg/m ³)	1650 +/- 50
pH of mix	Over 12
Pot life	>1 hour
Application temperature	From +5°C to +40°C
Open time	30 minutes approx.
Adjustability time	approx.
Ready for grouting on walls	After 8 hours
Ready of grouting on floors	After 24 hours
Set to light foot traffic	24 hours
Ready for use	14 days

FINAL PERFORMANCES	
Slip (T) (BS EN 12004-2:2017)	< 0.5mm
Initial tensile adhesion strength (BS EN 12004-2:2017)	≥ 0.5 N/mm ²
Tensile adhesion strength (Heat ageing) (BS EN 12004-2:2017)	≥ 0.5 N/mm ²
Tensile adhesion strength (Water immersion) (BS EN 12004-2:2017)	≥ 0.5 N/mm ²
Tensile adhesion strength (Freeze thaw cycle) (BS EN 12004-2:2017)	≥ 0.5 N/mm ²
Resistance to Alkali	Excellent
VOC Content	4 g/L

Method of Application

1 SURFACE PREPARATION

- New floor and wall surfaces must be a minimum of 28 days old to allow for all standard concrete and blockwork shrinkage.
- Surfaces must be sound, free of all contaminants and any material which may inhibit adhesion and should not be subject to movement.
- If necessary, mechanically prepare concrete substrates to remove contamination, coatings or poorly bonded material.
- Vacuum to remove all dust and debris deposits.
- Any making good should be carried out using a suitable Dr Fixit repair mortar or Roff smoothing screed (consult Technical Department).

2 PRIMING

- Priming mineral substrates is not normally necessary however excessively porous or friable surfaces should be primed using Roff Acrylic Primer.
- Priming any substrate will reduce the suction and therefore improve adhesion and extend the open time of the applied material.

3 MIXING

- One bag of Roff Tile Fix C1TE should be added slowly to 6.75-7.0 litres of clean potable water.
- Mix using a heavy duty paddle mixer to achieve a creamy, lump free consistency.
- Roff Tile Fix C1TE should be used within its pot life.
- If the material begins to firm up, do not add additional water after the original mixing. Dispose of any material not used within the pot life.

4 APPLICATION

Apply Roff Tile Fix C1TE with a trowel on the substrate. When choosing the trowel, the basic rule to follow is to choose one which guarantees sufficient buttering of the back of the tile generally from 3-6 mm bed.

- Solid notched bed: For all floor tile applications and wall tiling in dry area apply the mixed adhesive directly to the surface at 3-6mm thick and comb the surface with notched trowel. Only spread sufficient material that can be tiled within the open time of 30 minutes. Press the dry tiles firmly into place with a slight twisting motion to ensure full contact with the adhesive and prevent any voids. Deeply textured tile backs should be “battered” with adhesive to fill the texture prior to application to the wall.
- Grouting may commence as soon as the adhesive is sufficiently firm, whereas for floor tiling allow 24 hours before applying grout.

5 JOINT DESIGN

- All movement joints in the substrate should be brought through the finished floor.

6 CLEANING

- Clean all adhesive spillage and any adhesive extruded through the tile joints prior to setting, using a damp sponge.
- All tools should be cleaned using water prior to curing.
- Cured material can only be removed mechanically.

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Note:

In case of significant underground dampness, there should be a fully functioning vapor barrier below all concrete substrates.

Approximate Coverage

6 to 7 m² for a 25 kg bag at 45° angle by 6x6mm notched trowel.

Storage

When stored in dry conditions in original unopened packaging this product has a shelf life of 12 months. Storage above 35°C and high humidity (above 50%) will reduce shelf life and product performance.

Health and Safety Precautions

This product contains cement, and contact with the skin can cause irritation. It should not be inhaled, and a properly designed and maintained face mask should be used whilst handling, pouring and mixing. Avoid contact with the mixed product by working carefully, using barrier cream and wearing protective gloves. In the event of skin contact, wash immediately and thoroughly with clean water. Avoid contact with eyes, use eye protection. If contact with eyes occurs, irrigate with water for 20 minutes and seek medical advice. Do not ingest, if mistakenly ingested, drink plenty of clean water and seek medical advice.

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TILE ADHESIVES & GROUTS



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