

Roff Tile Strong C2 (TE)

CEMENTITIOUS TILE ADHESIVE WITH HIGH ADHESION



Description

Roff Tile Strong C2 (TE) is a highly polymer modified water resistant, single component, cement based adhesive suitable for interior and exterior use in domestic and commercial locations. Roff Tile C2 (TE) is designed to bond most ceramic, mosaic stone, marble and porcelain tiles in a wide range of demanding environments including wet areas such as showers, wet rooms and swimming pools. Roff Tile C2 (TE) is proposing advanced performance factors such as slip resistance and extended open time use up to 6 mm thick bed and for tile on tile applications.

Typical Applications

- Porcelain tiles
- Interior aerated concrete wall blocks
- Interior and exterior bonding of ceramic and mosaic tiles on floors, walls and ceilings.
- Swimming pools
- Residential and commercial
- Tile on tile
- Marble tiles

Features

- High Strength
- Water proof
- Hardens with minimal shrinkage
- Highly thixotropic, can be applied on a vertical surface without slumping or slipping
- Interior exterior use
- High initial grab
- Designed for Middle East Climate
- Suitable for glazed and unglazed ceramic tiles, natural stone and mosaic
- Highest order of adhesion

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)

Standards in compliance: -EN 12004 as C2(TE)
-ISO 13007-1 as C2(TE)
-ANSI 118.4

PRODUCT IDENTITY

Type	Powder
Bulk Density (kg/m ³)	Approx : 1400
Dry Solids Content (%)	100

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

Mixing Ratio	32-34 parts water by weight for 100 parts of Roff Tile Strong C2(TE)
Consistency of mixture	Very creamy
Density of mix (kg/m ³)	1500 ± 50
pH of mix	Over 12
Pot life	>1 hour
Application temperature	From +5°C to +40°C
Adjustability time	30 minutes 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)	≥ 1.0 N/mm ²
Tensile adhesion strength (Heat ageing) (BS EN 12004-2:2017)	≥ 1.0 N/mm ²
Tensile adhesion strength (Water immersion) (BS EN 12004-2:2017)	≥ 1.0 N/mm ²
Tensile adhesion strength (Freeze thaw cycle) (BS EN 12004-2:2017)	≥ 1.0 N/mm ²
Open time (BS EN12004-2:2017)	≥0.5 N/mm ² @30 mins
Resistance to Alkali	Excellent
VOC Content	4 g/L

Method of Application

1 SURFACE PREPARATION

- New mineral 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.
- 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 Rok 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 Strong C2(TE) should be added slowly to $8.25 \pm 5\%$ litres of clean potable water.
- Mix using a heavy duty paddle mixer to achieve a creamy, lump free consistency.
- Roff Tile Strong C2(TE) 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 Strong C2(TE) 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 for solid bed application.

- 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 “buttered” with adhesive to fill the texture prior to application to the wall.
- Grouting may commence as soon as the adhesive is sufficiently firm usually after 24 hours, whereas for floor tiling allow 48 hours before applying grout.

Please consult our technical department for any application and technical queries.

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.

Note:

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

Approximate Coverage

7 to 8 m² for a 25 kg bag at 45° angle by 6x6mm notched trowel.

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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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