

Roff Tile 601



CEMENTITIOUS TILE ADHESIVE

Description

Roff Tile 601 is a single component, cement based thin bed tile adhesive suitable for interior use. Roff Tile 601 is designed to bond ceramic and stone tiles in all domestic and light commercial locations including wet areas. Roff Tile 601 is supplied in grey and white colours. Roff Tile 601 meets the requirement for characteristics of EN12004 C1 and ANSI 118.1 when mixed with Roff Tile PA.



Typical Applications

- Interior residential
- Kitchen
- Light commercial areas
- Suitable for floor and wall tiling

Features

- Designed for Middle East Climate
- Suitable for glazed and unglazed ceramic tiles
- Good open time

Suitable Substrates

Suitable for use on concrete, screeds, cement based plaster, brickwork and dense concrete blocks. Can also be applied to gypsum and cement board using Roff Acrylic Primer.

Packaging

25 kg bag

TECHNICAL DATA (typical values)

PRODUCT IDENTITY	
Type	Powder
Colour	Grey and White
Bulk Density (kg/m ³)	1600 +/- 50

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

Mixing Ratio	24-26 parts water for 100 parts of Roff Tile 601
Consistency of mixture	Very creamy
Density of mix (kg/m ³)	1900 +/- 50
pH of mix	Over 12
Pot life	45 minutes approx.
Application temperature	From +5°C to +40°C
Open time	20 minutes
Adjustability time	>20 minutes approx.
Ready for grouting	After 24 hours
Set to light foot traffic	24 hours
Ready for use	14 days

FINAL PERFORMANCES

Pull off Strength	>0.5 N/mm ² (BSEN 1015:12 & BS 1881:207)
VOC Content	<0.4 g/L (USEPA 24)
Compressive Strength	>15 N/mm ² @28days (BS 6319-2)
Flexural Strength	>2 N/mm ² @28days (BS 6319-3)
Tensile Strength	>1 N/mm ² @28days (BS 6319-7)
Resistance to Alkali	Excellent

Applicable Standards:

- BS 5980
- ANSI 118.1 (when mixed with Roff Tile PA)
- EN12004/ISO13007
(C1 when mixed with Roff Tile PA)

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 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 (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 suction and therefore improve adhesion and extend the open time of the applied material.
- Un-primed substrates should be water saturated and surface dry (SSD) before application begins.

3 MIXING

- One bag of Roff Tile 601 should be added slowly to 6.0-6.25 litres of clean potable water. Mix using a heavy duty paddle mixer to achieve a creamy, lump free consistency. Roff Tile 601 should be used within its pot life 60 minutes. 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 601 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 20 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.

N.B. Mix with Roff Tile PA to improve its characteristics to achieve ANSI 118.1 and EN 12004. For mixing ratio please consult our technical Team.

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.

Theoretical Coverage

5.0–5.5 m² per unit using a 6mm x 6mm notch (water addition 6.25 ltrs per 25kg bag)

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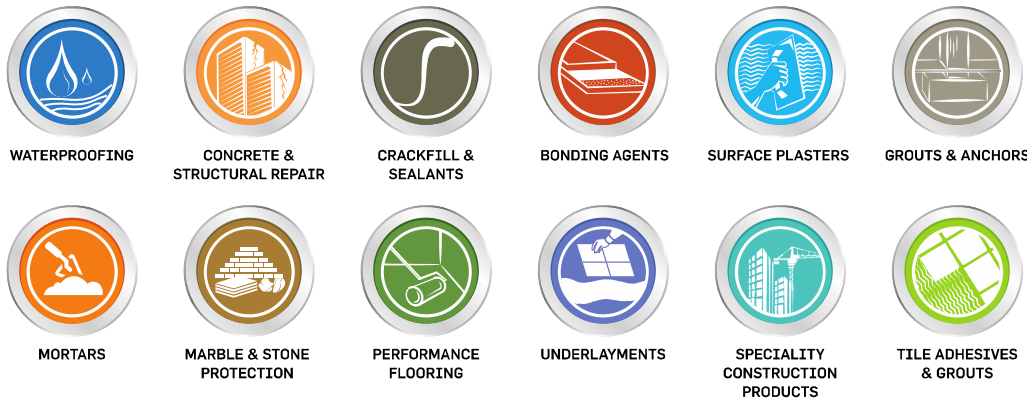
Storage

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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