

# Roff Tile C2

CEMENTITIOUS TILE ADHESIVE WITH IMPROVED ADHESION



## Description

**Roff Tile C2** is a highly polymer modified water resistant, single component, cement based thin bed tile adhesive suitable for interior and exterior use in domestic and commercial locations. Roff Tile C2 is designed to bond glazed/unglazed 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 is supplied in grey and white colors.

## Typical Applications

- Floor and wall tiling
- Swimming pools
- Residential and commercial
- Tile on tile
- External wall tiling

## Features

- High Strength
- Water proof
- Interior exterior use
- High initial grab
- Non slump
- Designed for Middle East Climate
- Highest order of adhesion

## Suitable Substrates

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

Also Suitable for tile on tile application

## Packaging

25 kg bag

## TECHNICAL DATA (typical values)

In compliance with: -EN 12004  
-ISO 13007-1  
-ANSI 118.4

### PRODUCT IDENTITY

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

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

Mixing Ratio	24-26 parts water by weight for 100 parts of Roff Tile C2
Consistency of mixture	Very creamy
Density of mix (kg/m <sup>3</sup> )	1600 ± 50
pH of mix	Over 12
Pot life	>1 hour
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

Initial Tensile adhesion strength (BS EN 12004-2:2017)	≥ 1.0 N/mm <sup>2</sup>
Tensile adhesion strength (Heat ageing) (BS EN 12004-2:2017)	≥ 1.0 N/mm <sup>2</sup>
Tensile adhesion strength (Water immersion) (BS EN 12004-2:2017)	≥ 1.0 N/mm <sup>2</sup>
Tensile adhesion strength (Freeze thaw cycle) (BS EN 12004-2:2017)	≥ 1.0 N/mm <sup>2</sup>
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 material

### 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.
- Un-primed substrates should be water saturated and surface dry (SSD) before application begins.

### 3 MIXING

- One bag of Roff Tile Strong C2 should be added slowly to 6.0 – 6.5 litres of clean potable water. Mix using a heavy duty paddle mixer to achieve a creamy, lump free consistency. Roff Tile Strong C2 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

- Solid bed: for all floor tile applications and wall tiling in wet areas; 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. Press the dry tiles firmly into place with a slight twisting motion to ensure full contact with the adhesive and prevent any voids. When floor tiles allow 24 hours before applying grout, when wall tiling, grouting may commence as soon as the adhesive is sufficiently firm.

- Notched trowel: For wall tiling in dry areas; apply the mixed adhesive directly to the surface using 6mm x 6mm notched trowel. Only spread sufficient material that can be tiled within the open time. Press the dry tiles firmly into place with slight twisting motion to ensure full contact with 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.

***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.

### Approximate Coverage

6 to 7m<sup>2</sup> at 6x6mm notched trowel  
(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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TILE ADHESIVES & GROUTS



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