



# Fosroc Nitotile C2 HighFix

**High performance slip resistant Polymer-modified single component cementitious tile adhesive**

## Uses

Nitotile C2 HighFix is a high quality adhesive for the permanent fixing of ceramic wall and floor tiles including porcelain and fully vitrified tiles, ceramic mosaics, quarry tiles, dark natural stone, terrazzo and brick slips. Typical uses include :

- For indoor and outdoor use
- Wet areas - kitchens and bathrooms
- Swimming pools
- Fixing marble tiles (upto 40kg/m<sup>2</sup> on vertical)
- Fixing heavy elements e.g. brick slips, concrete tiles
- Bridges, underpasses and high rise buildings
- External claddings



## Advantages

- Formulated to suit Middle East conditions
- Enhanced bond and tensile strengths
- Good open time & slip resistance
- Safe and easy to use
- Water resistant - suitable for submerged conditions
- Early return to service

## Standards compliance

Nitotile C2 HighFix conforms to C1TE & C2TE, classified by EN 12004 and also conforms to the requirements of ANSI A118.4

## Description

Nitotile C2 HighFix is supplied as a single component pack, which requires only the on-site addition of clean water to produce a consistently high performance adhesive, suitable for the following substrates:

- Concrete
- Ceramic Tile & Stone
- Cement Plaster
- Brick Masonry
- Concrete Masonry
- CementTerrazzo
- Cement mortar beds
- Ceramic backer board

## Properties

<b>Consistency</b>	: Powder
<b>Colour</b>	: Grey
<b>Solid Contents</b>	: 100%

### Tensile adhesion strength (EN 1348 - stoneware tiles)

Complies with the requirement of C2 type CTA

<b>28d sc</b>	: >1.8 N/mm <sup>2</sup>
<b>7d sc+21d water</b>	: >1.1 N/mm <sup>2</sup>
<b>14d sc+14d 70°C+1d sc:</b>	: >1.2 N/mm <sup>2</sup>

### Open time by tensile adhesion strength (EN 1346-earthenware tiles)

<b>5min</b>	: >1.8 N/mm <sup>2</sup>
<b>20min</b>	: >1.1N/mm <sup>2</sup>
<b>30 mins</b>	: >0.9 N/mm <sup>2</sup>

### Slip Resistance (EN 1308) (EN 12004)

Complies to Standard C2TE

### Open time (EN 1346)

: >30min

**Application temperature** : +5 to +40°C

**Resistance to alkalis** : Excellent

**Resistance to solvents** : Excellent

**Temperature resistance after final cure** : From -30 to +90°C

## Instructions for use

### Surface preparation

All surfaces must be sound and thoroughly clean before Nitotile C2 HighFix is applied. All traces of grease, oil and loose particles of mortar, old wallpaper, paint etc. must be physically removed.

### Surfaces

Nitotile C2 HighFix can be applied directly on concrete, cement screeds, and cement or lime mortar. Special attention must be given to new construction prior to commencing tiling. Tiles should not be placed on concrete or blockwork until all shrinkage movement has taken place.

**Note :** Nitotile C2 HighFix should only be used on gypsum or gypsum board substrates after priming with Cebond\*\* or Nitobond PVA\*\*.

# Fosroc Nitotile C2 HighFix

## Mixing

A slow speed drill fitted with a suitable mixing paddle and mixing vessel of minimum 30 litre capacity are recommended.

6.5 litres of clean water is required for 25kg bags of Nitotile C2 HighFix.

Pour the recommended volume of clean water into the mixing vessel. With the Fosroc Mixing Paddle MR4 in operation, add the powder component to the mix and continue mixing for 3 minutes until a uniform and lump-free consistency is achieved.

## Application

Once mixed, Nitotile C2 HighFix is typically spread on the substrate to a uniform thickness of 2-10mm. This is then combed horizontally.

Place tiles firmly into adhesive bed ensuring good contact with a twisting motion. Only apply to areas which can be tiled in the adhesive's open wet time (normally up to 1m<sup>2</sup> at a time).

## Joints

It is recommended that when fixing ceramic tiles, a minimum spacing of 2mm be left around each tile.

## Finishing

Remove excess adhesive with a damp cloth before material has set.

## Cleaning

Nitotile C2 HighFix should be removed from tools, equipment and mixers with clean water immediately after use. Cured material can only be removed mechanically.

## Grouting

Grout installation should be after a minimum of 24 hours curing time at 25°C. Grout with Nitotile XS Grout\*\* or Nitotile Grout\*\*†, depending on the floor application.

## Limitations

- Nitotile C2 HighFix should not be used when the temperature is below 5°C and falling.
- The product should not be exposed to moving water during application.

If any doubt arise concerning temperature or substrate conditions, consult your local Fosroc office.

## Estimating

### Supply

Nitotile C2 HighFix	:	25kg bags
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### Yield

Nitotile C2 HighFix	:	17.9 litres/25kg pack
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## Storage

When stored in a dry conditions in the original, unopened bags, Nitotile C2 HighFix will have a shelf life of 12 months. If stored at high temperature and / or high humidity conditions the shelf life will be reduced.

\* Denotes the trademark of Fosroc International Limited

† See separate data sheet



## Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Service. All Fosroc datasheets are updated on a regular basis. It is the user's responsibility to obtain the latest version.

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