



# Nitotile EN

**Polymer modified waterproof, tile adhesive, conforming to EN specifications**

## Uses

Nitotile EN is a high-performance adhesive for the permanent fixing of ceramic wall and floor tiles including porcelain and fully vetrified tiles, ceramic mosaics, quarry tiles, dark natural stone, terrazzo and brick slips. It can also be used for fixing of insulating and acoustic boards based on expanded polystyrene etc. Typical uses include :

- Wet areas - kitchens and bathrooms, swimming pools, fountains.
- Tile claddings

## Advantages

- Tropical grade to suit Middle East working conditions
- Good open wet time
- Good slip resistance
- High adhesive bond strength
- Water proof
- Good slip resistance
- Suitable in totally submerged conditions

## Standards compliance

Nitotile EN conforms to EN12004 standard.

## Description

Nitotile EN cementitious based powder is available in grey or white colour.

## Technical support

Fosroc offers a comprehensive technical support service to specifiers, end users and contractors. It is also able to offer on-site technical assistance, an AutoCAD facility and dedicated specification assistance in locations all over the world.

## Properties

<b>Density</b>	: 1.65 kg/m <sup>3</sup>
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<b>Tensile adhesion strength (EN 1348 - stoneware tiles)</b>	
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<b>28d sc</b>	: >1.5 N/mm <sup>2</sup>
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<b>7d sc+21d water</b>	: >0.7 N/mm <sup>2</sup>
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<b>14d sc+14d 70°C+1d sc:</b>	: >1.5 N/mm <sup>2</sup>
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<b>Open time by tensile adhesion strength (EN 1346-earthenware tiles)</b>	
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<b>5min</b>	: >1.2 N/mm <sup>2</sup>
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<b>20min</b>	: >0.6N/mm <sup>2</sup>
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<b>30 mins</b>	: >0.5 N/mm <sup>2</sup>
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<b>Transverse Deformation (EN12002)</b>	
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<b>14 d 23°C/95%RH+14 d sc</b>	
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<b>Deflection at max. force</b>	: >2.0 mm
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<b>Stress at max. force</b>	: >2.0 N/mm <sup>2</sup>
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<b>Deflection at break</b>	: >2.5 mm
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<b>Stress at break</b>	: >2.3 N/mm <sup>2</sup>
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## Instructions for use

### Surface preparation

All surfaces must be sound and thoroughly clean before Nitotile EN is applied. All traces of grease or oil must be removed with a chemical degreaser. All loose particles of mortar, old wallpaper, paint etc. must be physically removed.

### Surfaces

Nitotile EN 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** : To use Nitotile EN on gypsum or gypsum board substrates, diluted Nitobond PVA (1 : 3 with water) should be applied to the surface of the gypsum or gypsum board prior to application of Nitotile EN.

### Mixing

6.25 litres of water is required for each 25 kg bag of Nitotile EN. A slow speed drill fitted with a Fosroc Mixing Paddle (MR4) and 30 litre mixing vessel are recommended. Add powder to water and mix for 3 minutes until a uniform and lump-free consistency is achieved.

# Nitotile EN

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## Application

Nitotile EN should be spread on the substrate to a uniform thickness of 2-6mm, and 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 the material has set.

## Cleaning

Nitotile EN 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\*\*†, depending on the floor application.

## Limitations

- Nitotile EN 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.

## Storage

### Shelf life

Nitotile EN has a shelf life of 12 months if kept in a dry store in the original, unopened bags.

## Storage conditions

Store in dry conditions in the original, unopened bags or packs. If stored at high temperature and / or high humidity conditions the shelf life may be reduced.

## Estimating

### Supply

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**Nitotile EN** : 25 kg bags

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### Yield

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**Nitotile EN** : Approx. 18.4 litres/ 25 kg bag

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**Note** : Actual yield will vary according to water addition

## Precautions

### Health and safety

Nitotile EN contains cement powders which, when mixed with water or upon becoming damp, release alkalis which can be harmful to the skin.

During use, avoid inhalation of the dust and contact with the skin or eyes. Wear suitable protective clothing - eye protection, gloves and respiratory equipment (particularly in confined spaces).

The use of barrier creams to provide additional skin protection is also advised. In case of contact with the skin, rinse with plenty of clean water, then cleanse thoroughly with soap and water.

In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately - do **not** induce vomiting.

### Fire

Nitotile EN is non-flammable



**Fosroc Jordan**

Head Office  
P.O Box 253,  
King Abdullah II Industrial State  
Sahab 11512, Jordan  
[www.fosroc.com](http://www.fosroc.com)

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### Regional Offices:

Amman-Khalda Offices: Tel: (06) 535 9562  
Amman-Sahab Factory: Tel: (06) 402 2665

email: [enquiryjordan@fosroc.com](mailto:enquiryjordan@fosroc.com)

Fax: (06) 535 9563  
Fax: (06) 402 9475