

Fosroc Nitotile C2 HighFix

High performance slip resistant Latex /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, quarry tiles, dark natural stone, cement terrazzo and brick slips. Typical uses include :

- For indoor and outdoor use
- Wet areas - kitchens and bathrooms
- Fixing marble tiles
- 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
- Suitable for submerged conditions

Standards compliance

Nitotile C2 HighFix conforms to 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
- Cement Terrazzo
- Cement mortar beds
- Ceramic backer board

Properties

| | |
|-----------------------|----------------|
| Consistency | : Powder |
| Colour | : Grey & white |
| Solid Contents | : 100% |

Tensile adhesion strength (EN 12004)

Complies with the requirement of C2 type CTA

| | |
|-----------------------------|----------------------------|
| Initial | : $\geq 1.35\text{N/mm}^2$ |
| Water immersion | : $\geq 1.50\text{N/mm}^2$ |
| Heat ageing at 70 °C | : $\geq 1.35\text{N/mm}^2$ |

Slip Resistance (EN 12004)

Complies to Standard C2TE

Open time (EN 12004)

: >30min

Application temperature

: +5 to +40°C

Resistance to alkalis

: Excellent

Resistance to solvents

: Excellent

Temperature resistance after final cure

: From -30 to +70°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**.

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Mixing

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

6 : 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 1m² at a time).

To lay any tiles larger than (60×60 cm) outdoors on facades. (Please refer to Fosroc technical support)

These values are valid for contentious, non-heating substrates.

To lay any tiles larger than (40×40 cm), the double layer 'buttering' technique is always recommended.

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

Yield

Nitotile C2 HighFix : 17.9 litres/25kg pack

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



Fosroc Chemtech
Construction Chemicals

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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