



# Fosroc Nitotile LM

## Latex-modified, tile adhesive

### Uses

Nitotile LM is a high quality adhesive for the permanent fixing of tiles. Typical uses include :

- Wet areas - kitchens and bathrooms
- Swimming pools
- Fixing marble tiles
- Fixing heavy elements e.g. brick slips, concrete tiles
- Bridges, underpasses and high rise buildings

### Advantages

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

### Standards compliance

Laboratory tests show Nitotile LM conforms to BS 5980:1980 Class AA Type 1.

### Description

Nitotile LM is supplied as a two component pack, comprising separate powder and liquid components, which requires only the on-site addition of clean water to produce a consistently high performance adhesive, compatible with most common tile types.

### Properties

<b>Density</b>	: 1650 kg/m <sup>3</sup>
<b>Tensile strength (BS 6319: Pt 7)</b>	: 1.7 N/mm <sup>2</sup> @ 28 days
<b>Shear adhesion (to BS 5980:1980)</b>	: Complies to Class AA
<b>Minimum open time</b>	: 20 minutes

### Instructions for use

#### Surface preparation

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

#### Surfaces

Nitotile LM 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 LM should only be used on gypsum or gypsum board substrates after priming with Cebond\*\* or Nitobond PVA\*\*.

#### Mixing

A slow speed drill fitted with a suitable mixing paddle and mixing vessel of minimum 40 litre capacity are recommended.

Measure out 5.5 litres of clean water into the mixing vessel and add the liquid component, stir thoroughly until dispersed. With the mixing paddle in operation, add the powder component to the mix and continue mixing for 2 to 3 minutes until a uniform, lump-free consistency is achieved.

#### Application

Once mixed, Nitotile LM is typically spread on the substrate to a uniform thickness of 2-6mm. 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 (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. Joint grouting with Nitotile LM Grout\*\* or Nitotile Grout\*\* may be commenced 24 hours after tiles have been laid.

#### Cleaning

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

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## Limitations

- Nitotile LM 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 LM powder	: 25 kg bags
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Nitotile LM liquid	: 1 litre
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### Yield

Nitotile LM	: 19.3 litres/pack
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### Shelf life

Nitotile LM has a shelf life of 12 months if kept in a cool and dry store in the original, unopened bags or packs.

### Storage conditions

Store in dry conditions in the original, unopened bags or packs. If stored at high temperature and / or high humidity conditions (Tropical conditions) the shelf life may be reduced by 4 to 6 months.

## 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.

## Precautions

### Health and safety

Nitotile LM 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 LM is non-flammable

## Additional information

Nitotile LM is part of a range of Fosroc tile adhesive and tile grouts. In addition, Fosroc manufactures a range of complementary products which includes waterproofing membranes, joint sealants, grouting, anchoring and specialised flooring materials. Additionally, a wide range of products specifically designed for the repair and refurbishment of damaged reinforced concrete is available. This includes hand-placed and spray grade repair mortars, fluid micro-concretes, chemical resistant epoxy mortars and a comprehensive package of protective coatings.

\* 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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