Nitotile® EPW Grout

Water miscible epoxy resin tile grout

Uses
To provide a hard wearing, easily cleaned, attractive tile grout where chemical resistance is required.

Advantages
- Resistant to mild chemicals and acids
- Solvent free - can be used in confined areas
- Good resistance to abrasion and impact resistance
- Attractive appearance, easily cleaned
- Available in a range of attractive colours
- Resists bacterial growth
- Hygienic - good to use in Laboratories, Hospitals and Health centers
- Good to use in wet area, fountains, swimming pool, kitchen, bathroom and Sauna
- Water miscible - safe in use, no odour

Description
Nitotile EPW Grout is a 3 component water miscible epoxy resin tile joint filler based on new generation epoxy resin technology supplied in preweighed packs, ready for onsite mixing and use.

Properties
Typical Properties of mixed material.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>Specific Gravity</td>
<td>1.60</td>
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<tr>
<td>Pot life @ 27°C</td>
<td>30 - 35 min</td>
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<tr>
<td>Foot traffic</td>
<td>24 hrs</td>
</tr>
<tr>
<td>Full cure</td>
<td>21 days</td>
</tr>
<tr>
<td>Compressive strength</td>
<td>1 day 15N/mm²</td>
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<tr>
<td></td>
<td>3 days 24 N/mm²</td>
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<tr>
<td></td>
<td>7 days 28 N/mm²</td>
</tr>
<tr>
<td></td>
<td>21 days 35 N/mm²</td>
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</table>

Chemical resistance
Nitotile EPW Grout is resistant to a comprehensive range of chemicals commonly encountered in industrial applications, few of them are listed below:
- Water, Sea water
- Alkali Solutions
- Aqueous solutions of salts
- Soft drinks
- Fruit juices
- Carbonated beverages
- Motor oils and lubricants
- Cosmetics and toiletries.
- Pharmaceutical products
- Dairy products
- Edible oils
- Medicated oils etc.

Instructions for use
Preparation
Joints to be grouted should be clean and free from any dust or debris.

Mixing
The base and hardener components in a suitable container until a uniform colour is obtained.
The filler component should then be added to the mixed liquid and blended using a slow speed drill and suitable mixing paddle until a uniform, homogeneous mixture is obtained.

Application
Apply Nitotile EPW Grout with a spatula to the spaces between the tiles working the mixture into the joints and around the edges.

Remove surplus material from the face of the tiles with a damp cloth, before material has gelled. Hardened material can only removed mechanically.

Cleaning
Nitotile EPW Grout should be removed from tools, equipment with water immediately after use. Cured material can only be removed mechanically.

Limitations
Nitotile EPW Grout 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 doubts arise concerning temperature or substrate conditions, consult your local Fosroc office.
Nitotile® EPW Grout

Estimating
Supply
Nitotile EPW Grout : 2.5 litre pack

Yield
Nitotile EPW Grout : 45 RM for 3 x 10mm joint

Guide to sealant quantities
Number of litres required =
Joint width (mm) x sealant depth (mm) x joint length (m)
1000

Storage
Shelf life
Nitotile EPW Grout has a shelf life of 12 months if kept in a dry store in the original, unopened bags or packs.

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 to 4 to 6 months.

Technical support
Fosroc offers a comprehensive range of high performance, high quality repair, maintenance and construction products. In addition, Fosroc offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance in locations all over the world.

Precautions
Health and safety
Nitotile EPW Grout is epoxy resin based. Direct contact with eyes will cause irritation and may cause serious damage if left untreated. Any eye contamination should be washed immediately with clean water and immediate medical attention sought.

Gloves and barrier cream should be used at all times when handling Nitotile EPW Grout. If contact with the skin occurs a resin removing cream should be used followed by washing with soap and water.

Estimating
Supply

| Nitotile EPW Grout | 2.5 litre pack |

Yield

| Nitotile EPW Grout | 45 RM for 3 x 10mm joint |

Guide to sealant quantities

Number of litres required =
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<thead>
<tr>
<th>Bangalore</th>
<th>Mumbai</th>
<th>Delhi</th>
<th>Kolkata</th>
</tr>
</thead>
<tbody>
<tr>
<td>'Vishnu Chittam', No.10, 1st Floor Sirur Park B Street, Seshadripuram Bangalore 560020</td>
<td>208/209, Persepolis Sector 17, Vashi Navi Mumbai 400 703 Ph:022-2789 6411/12 Fax: 022 - 2789 6413 email:<a href="mailto:Mumbai@fosroc.com">Mumbai@fosroc.com</a></td>
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</tr>
</tbody>
</table>

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Nitotile® GP
(Formerly known as Nitotile SP)

Polymer modified tile adhesive

Uses

Nitotile GP is a high quality adhesive for the permanent fixing of ceramic tiles. 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
- Tile claddings

Advantages

- Tropical grade to suit Indian working conditions
- Good open wet time
- Good slip resistance
- High adhesion strength
- Water proof
- Good slip resistance
- Can be used in totally submerged conditions

Standards compliance

Nitotile GP conforms to BS 5980 Class AA Type 1 and suitability for contact with potable water as per BS 6920 Part 1.

Description

Nitotile GP cementitious 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.

Instructions for use

Surface preparation

All surfaces must be sound and thoroughly clean before Nitotile GP 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 GP 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 brickwork until all shrinkage movement has taken place.

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

Mixing

Nitotile GP should be mixed with clear potable water in the ratio 3:1 by weight (3 part powder : 1 part water). A slow speed drill fitted with a mixing paddle is recommended for mixing. Add powder to water and mix until a uniform, lump-free consistency is achieved. The total quantity of water may be slightly adjusted to achieve the required consistency.

Application

Nitotile GP should be spread on the substrate to a uniform thickness of 2-3mm, and then combed horizontally with a serrated trowel.

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 1m² 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 Grout† may be commenced 24 hours after tiles have been laid.

Cleaning

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

Limitations

Nitotile GP 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.
**Nitotile® GP**

**Estimating**

**Supply**
Nitotile GP : 25 and 5 kg bags

**Coverage**
Nitotile GP : Approx. 3.8 kg/m² @ 2mm

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

**Storage**

**Shelf life**
Nitotile GP 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.

**Precautions**

**Health and safety**
Nitotile GP 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 GP is non-flammable

**Additional information**
Nitotile GP 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.

For further information please contact your local Fosroc office.

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<thead>
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<tr>
<td>Bangalore</td>
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<td>Visakhapatnam</td>
<td>(0891) 2564850/2707607</td>
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Nitotile® Grout
(Formerly known as Nitotile GR)

Pigmented cementitious tiles joint filler

Uses
As a grout for dry tile joints in:
- Kitchens
- Bathrooms
- Shower stalls
- Swimming pools

Advantages
- Low cost service life - Mould resistant, tropical grade
- Easy to apply - Just add water for a thixotropic, non-slump grout
- Can be used in submerged conditions
- Available in a range of attractive colours

Description
Nitotile Grout is a blend of specially selected cements, fillers and synthetic organic polymers. When added to water it readily blends to produce a smooth creamy paste which when set is water and mould resistant. Nitotile Grout is used in conjunction with Nitotile* tile adhesives.

Properties
Typical Properties of mixed material.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working time at 20°C</td>
<td>90 minutes</td>
</tr>
<tr>
<td>Working time at 35°C</td>
<td>30 minutes</td>
</tr>
<tr>
<td>Compressive strength (ASTM C 109)</td>
<td>38 N/mm² @ 28 days</td>
</tr>
<tr>
<td>Tensile strength (BS 6319: Pt 7)</td>
<td>3 N/mm² @ 28 days</td>
</tr>
</tbody>
</table>

Instructions for use

Preparation
All tiles must be securely fixed in place and thoroughly cleaned before Nitotile Grout is applied. The gap between tiles should not exceed 4mm. Tile joint filling should only be done 24 hours after fixing the tiles.

Mixing
300 ml of water is required for each kg bag of Nitotile Grout. Add powder to water and mix until a uniform, lump-free, thick creamy paste is produced, allow to stand for ten minutes prior to use.

Application
Apply Nitotile Grout to the spaces between the tiles using a sponge or a small piece of soft cloth. Work the mixture into the joints and around the edges.

Remove surplus material from the face of the tiles with a dry cloth and run the tip of a gloved finger or suitable rounded tool along the grout to level it off and form a profile.

When the grout is dry, clean the tiles with a damp sponge to remove any excess material. It is advisable to remove uncured grout from textured tiles prior to setting, failure to do so may result in difficulty in removal.

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

Limitations
Nitotile Grout 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 doubts arise concerning temperature or substrate conditions, consult your local Fosroc office.

Estimating

Supply
Nitotile Grout : 1 kg pack

Coverage
Nitotile Grout : Approx. 49 running meter of 3mmx5mm joint / kg.

Storage
Shelf life
Nitotile Grout has a shelf life of 12 months if kept in a 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 the shelf life may be reduced.

Technical support
Fosroc offers a comprehensive range of high performance, high quality repair, maintenance and construction products. In addition, Fosroc offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance in locations all over the world.
Nitotile® Grout

Precautions

Health and safety
Nitotile Grout is cement based. Care should be taken to avoid inhalation of dust and contact with eyes. All cement based products, when mixed or damp release alkalis which can be harmful to the skin.

Additional Information
Nitotile Grout is part of a range of Fosroc tile adhesives and tile grouts.
Fosroc manufactures a wide range of complementary products which include:
- Waterproofing membranes & waterstops
- Joint sealants & filler boards
- Cementitious & epoxy grouts
- Specialised flooring materials

Fosroc additionally offers a comprehensive package of products specifically designed for the repair and refurbishment of damaged concrete. Fosroc's 'Systematic Approach' to concrete repair features the following:
- Hand-placed repair mortars
- Spray grade repair mortars
- Fluid micro-concretes
- Chemically resistant epoxy mortars
- Anti-carbonation/anti-chloride protective coatings
- Chemical and abrasion resistant coatings

For further information on any of the above, please consult your local Fosroc office.

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Nitotile® GTA

Polymer modified high strength adhesive for marble and granite tiles

**Uses**

Nitotile GTA is a two part high quality polymer based adhesive for the permanent fixing of granite and marble tiles.

**Advantages**

- Prepacked product requiring only direct mixing at site
- High adhesive bond strength - Ideal for vertical and horizontal applications of granite, marble, etc.
- Excellent grab during open time
- Quick fixing - Reduces labour costs
- Can be used in the interior and exterior of buildings

**Application instructions**

**Surface preparation**

All surfaces must be sound and thoroughly cleaned before Nitotile GTA is applied. All traces of grease and oil must be removed. All loose particles of mortar, wallpaper, paint etc., must be physically removed. The prepared surface must be wetted with water, prior to application of Nitotile GTA and must attain a saturated surface dry condition.

Nitotile GTA can be applied directly on concrete, cement screeds, cement or lime mortars provided they are strong.

**Mixing**

Take the liquid polymer in a suitable container and add the powder part under mixing. Use a slow speed drill fitted with a paddle to get a uniform lump free consistency. Overmixing can result in air entrainment which should be avoided. Water should not be added to adjust the consistency of the paste.

**Application**

Nitotile GTA is applied on to the prepared substrate and spread with a serrated trowel to achieve a uniform thickness of 3 - 4mm. Place the tiles firmly on to the adhesive bed ensuring total contact with a twisting motion. Choose work areas so that the tiles can be fixed within the open time of the adhesive which is approx. 20 mins at 30 deg.C. Normally granite and marble tiles upto a thickness of 20mm can be fixed in vertical position without problem.

**Finishing**

Remove the excess adhesive using a damp cloth before it sets.

Grouting of joints may be commenced 24 hours after the tiles have been fixed.

**Limitations**

Nitotile GTA is not recommended for overhead applications. On vertical applications, heavy slabs need proper support till appropriate grab is achieved

Note: Nitotile GTA should not be applied on Gypsum board substrates.

**Estimating**

**Coverage**

Approx. 0.8 sq.m for 5 kgs of Nitotile GTA at 3mm thickness.

**Packaging**

Nitotile GTA is supplied in two parts A & B, 5 kg preweighed packings.

**Storage**

Shelf life - 6 months in unopened bags under normal warehouse conditions.

**Precautions**

**Health & Safety**

Nitotile GTA is a special cement based material.

Care should be taken to avoid inhalation of dust and contact with skin and eyes during use.

**Additional information**

In addition to granite/marble tile adhesives, Fosroc manufactures a wide range of other products which include concrete admixtures, waterproofing membranes, joint sealants, grouts and anchors and specialised flooring materials. Additionally, a wide range of products specifically designed for the repair and refurbishment of damaged reinforced concrete are also available.

For further information, please contact your local Fosroc office.
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Nitotile® MPA

Multipurpose tile adhesive for exterior, tile-on-tile, tile-on-glass and specialised applications

Uses
Nitotile MPA tile adhesive is a high quality adhesive used for the permanent fixing of tiles over smooth surfaces such as existing tiles, ceramic tiles or glass, subjected to damp and tropical conditions and for specialised applications such as tile on tile and tile-on-glass etc.

Advantages
- Polymer modified - prewetting of tiles not required and hence less prone to cracking of mortar
- Single component - ease of application
- Non toxic - User friendly application
- Excellent adhesion on smooth surfaces - Develops high adhesive bond strength
- Non shrink - excellent bond with the substrate
- Excellent work and open wet time of 2 hrs at 30°C - allows the mason to fix tiles at ease even under hot conditions
- Self cure - does not require external curing
- Forms a dense and impermeable mortar bed - waterproof

Standard compliance
Nitotile MPA meets / exceeds the requirements for tensile adhesive strength of BS 5980-1980, Class AA, A & B.

Description
Nitotile MPA is a single component, polymer modified cement based grey coloured powder.

Technical support
The company provides a technical advisory service supported by a team of specialists in the field.

Properties

<table>
<thead>
<tr>
<th>Properties</th>
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<td>Density of the mixed material</td>
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<td>Approx. 2 hrs</td>
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<td>Setting time</td>
<td>Initial - 13 hrs, Final - 2 days</td>
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<td>Pull out bond strength on tile at 28 days</td>
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<td>Compressive strength (N/mm²)</td>
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<td>W/P ratio</td>
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Application instructions

Surface preparation
All surfaces must be sound and thoroughly cleaned before Nitotile MPA is applied. All traces of grease or oil must be removed with suitable degreaser. All loose particles of mortar, old wallpaper, paint etc., must be physically removed. In case of cementitious surfaces, the areas of application must be thoroughly wetted with water to obtain saturated surface dry condition.

In case of smooth surfaces, prewetting of substrate with water is not essential.

Mixing
Nitotile MPA should be mixed with water in the ratio of 3 : 1 by volume or 4:1 by weight. While mixing, add powder to the water to avoid lump formation. A slow speed drill fitted with a suitable mixing paddle is recommended for mixing. Hand mixing may also be resorted to if small quantities are mixed. (Note: Use of chilled water in extreme temperatures will increase open time of Nitotile MPA).

Application
Nitotile MPA, is spread on the substrate to a uniform thickness of 2 - 3mm. This is then combed horizontally with a notched trowel. The tiles are then placed firmly into the adhesive bed ensuring good contact with the mortar by a twisting motion.
Nitotile® MPA

**Finishing**

The excess material shall be removed with a damp cloth before it sets.

Joint grouting with Nitotile Grout may be commenced 24 hours after tiles have been fixed.

**Estimating**

**Packaging**

Nitotile MPA is supplied in 25 kg bags.

**Coverage**

Approximately 3.8 kg of Nitotile MPA is required per sq.m when uniformly applied at 2mm thickness. Material consumption will increase if the substrate is not even.

**Storage**

**Shelf life**

12 months in unopened bags under normal warehouse conditions.

Nitotile MPA must be stored in a cool dry place.

**Precautions**

**Health & Safety instructions**

Nitotile MPA is cement based and hence alkaline in nature. Care should be taken to avoid inhalation of dust and contact with skin and eyes during use.

**Additional information**

The Fosroc range of associated products include high strength cementitious and epoxy grout, polyester resin based mortar for rapid presetting of steel shims to level or for direct bedding of small base plates. Also available a range of products for use in construction; viz., admixtures, curing compounds, release agents, flooring systems, repair mortars, sealants and waterproofing compounds.

Separate datasheets are available on these products.

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**Important note:**

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