

Nitotile Grout

Cementitious Tile Joint Filler

Uses

Nitotile grout is a high quality polymer-modified, water resistant, cement based grout designed for grouting glazed wall tiles, porcelain tiles, mosaic, vitrified and fully vitrified tiles, natural and engineered stones for both interior and exterior applications.

Advantages

- Easy to apply - Just add water for a thixotropic, non-slump grout
- Can be used in submerged conditions
- Available as per RAL colour
- Good bond strength
- water resistance & UV resistance
- Suitable for joint width of 1mm to 6mm

Properties

Specific gravity	1.9 to 2.0 g/cc
Working time at 20°C	90 minutes
Working time at 35°C	30 minutes
Compressive strength (ASTM C109)	38 N/mm ² @ 28 days
Tensile strength (BS 6319 -7)	3N/mm ² @ 28 days

Note: The typical physical properties given above are derived from testing in a controlled laboratory environment. Results-derived from testing field-applied samples may vary, dependent on actual site conditions.

Instructions for use

Preparation

Before application of grout ensure the adhesive bed is set.

Clean the joints and other containments such as efflorescence, laitance, dirt and other loose material using a grout raker.

All joints should be made wet with clean water and ensure the joints are surface dry before application

Note: Movement Joints should be provided in accordance with BS 5385 : part 1 - 5 and may be filled with the appropriate flexible sealant. Intermediate floor joints should be reinforced with brass or stainless steel. Use stainless steel where hygiene is essential.

Mixing

Nitotile grout should be mixed with clear potable water with a water powder ratio of 0.3. 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. Do not reconstitute the mixed grout by adding more water as this will affect the properties of the grout.

Pack size(kg)	Water Required(ml)
1	300

Application

Apply to the tile joints with squeegee, spatula or putty blade. After application flush the surface of tile using a hard rubber float, working diagonally across the grout joints to fill and compact the joints.

Work in small areas and remove excess grout from the tile surface as much as possible from the same rubber float. Do not exceed the working time of the grout.

Allow about 15 minutes for the grout to set. After initial set Using a damp sponge, clean the tile/stone surface diagonally to the joint lines.

Finally wash down with clean water and sponge to remove any dried grout film from the tile/stone surface.

Once the grout has sufficiently set within the joints, polish the tile/stone surface with a clean cloth. Alternatively give a final wash down with clean water using a dampened sponge.

Note:

1) Care should be taken to avoid staining tile/stone during grouting. This is especially applicable when grouting unglazed floor tiles/stone, quarry textured surface, etc. Check the potential risk of staining by applying the grout to a few tile/stone in a small trial area.

2) If certain dark shades are used, initially grout colour may bleach, but after 2 - 3 times of water wash the colour bleaching will stop.

3) Where chemical resistance, hygienic and sterile is important use Nitotile EPW Grout.

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.

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Estimating

Supply

Nitotile Grout is supplied in 1 kg pack.

Coverage

Guide to calculation of quantity of grout (kg/m²) .

Refer the table for consumption of grout for various sizes.

$$\frac{=(L+W) \times \text{thickness of tile} \times \text{width of the joint} \times \text{density of the grout}}{L \times W}$$

L = Length

W = Width

"Size of the Tile (mm x mm)"	"Tile Thickness (mm)"	"Consumption for 2mm joint width (Kg/m ²)"
100 X 100	6	0.47
125 X 250	8	0.37
200 X 200	8	0.31
200 X 200	12	0.47
200 X 200	14	0.55
200 X 250	8	0.28
200 X 300	8	0.26
250 X 300	8	0.23
300 X 300	8	0.21
330 X 600	8	0.15
330 X 600	10	0.18
400 X 400	10	0.20
450 X 450	10	0.17
600 X 600	10	0.13
600 X 1200	11	0.11

Note : Add 5 to 10% wastage for consumption calculation.

Storage

Shelf life

Nitotile Grout has a shelf life of 12 months if kept in the original, unopened bags or packs. If stored at high temperature / 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.

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.

Fire

Nitotile Grout is non-flammable

Additional Information

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

For further information please contact our local Fosroc office.

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Important note :

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation, specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it.

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