

Nitotile GPX

High Performance Polymer modified Tile Adhesive.

Uses

Nitotile GPX is a cementitious based high quality tile adhesive available in both Grey & White colour, for the permanent fixing of ceramic, glass mosaic, vitrified tiles, all stones dense and large dimension (> 300mm x 300mm) having porosity less than or equal to 3% for both internal & external application of tiles for wet area, dry area & submerged conditions.

It is suitable for fixing tiles of size upto 600mm x 600mm and bed thickness upto 6mm and can be extended upto 12mm thickness in a area of limited extent.

Note:

1. It is not suitable for application on to gypsum plaster, paint or metal, and for large format tile applications of >600mm x 600mm.
2. When used on AAC blocks, it is recommended to have cementitious rendering prior to application of adhesive or higher version of tile adhesives i.e Nitotile MPA Shall be used.

Advantages

- Can be used in internal, external and submerged conditions
- Tropical grade to suit Indian working conditions
- Good open wet time
- Good Slip resistance on vertical application
- High adhesion strength

Standards compliance

IS : 15477-2019 TYPE 2

Description

Nitotile GPX cementitious powder is available in Grey & White colours.

Properties

Mixed Density	1.60 - 1.70 g/cc
W/P ratio	0.25 to 0.28
Bed Thickness	upto 12mm
Pot life	>90 mins
Extended Open Time	>15 mins
Tensile Adhesion Strength (Dry & Wet condition)	>1.0 N/mm ²
Shear Adhesion Strength	>1.25 N/mm ² in dry condition

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.

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 GPX 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.

Make sure the substrate is flat and in sound conditions to achieve uniform thickness & coverage. If level variation on floor or wall is more than an average 12 mm (Excluding intentional), surface preparation as required to bring the surface true to plumb level shall be taken up with appropriate material

Saturate the surface thoroughly and remove excess water before the application of Nitotile GPX.

For porous substrates, it is recommended to use suitable primer.

Surfaces

Nitotile GPX can be applied directly on concrete, cement screeds, & cement plaster. 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.

Mixing

Nitotile GPX should be mixed with clear potable water in the water powder ratio of 0.25 to 0.28. 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.

Pack Size (kg)	Water required (litres)
20	5 to 5.6
40	10 to 11.2

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Application

- Make sure that required amount of adhesive shall be mixed & used within the specified pot life. Spread not more than the area which can be tiled within the open time of the adhesive.
- Using a notch trowel, uniformly comb the tile adhesive to required thickness.
- Firmly fix the tiles into position with a slight twisting action, ensuring good contact without leaving any voids behind tiles.
- Tiles should be fixed within specified open time of adhesive, depending on the porosity of the substrate and atmospheric conditions. Adhesive ribs can be checked periodically and if a skin has formed, remove the adhesive and apply a new layer.
- Spacers & corner beads of required dimensions shall be used to maintain adequate joints between individual tiles on horizontal or vertical areas.
- Remove any excess adhesive from the tiles and joints with a damp sponge or cloth before it sets. Leave for at least one day before application of tile grouts. It is recommended to use Nitotile cementitious/epoxy tile grouts.

Cleaning

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

Limitations

Nitotile GPX 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 GPX(Grey & White) : 20 & 40 kg

Coverage

Nitotile GPX(Grey & White) :	1. Approx.1.60 to 1.70kg for 1mm thickness for 1m ²
	2. E.g. for 9mm thickness per Sq.m, it is 14.4kg to 15.3kg

Note : Actual yield will vary according to water addition
Coverage may depend upon the nature and flatness
of the substrate and the method of application.

Storage

Shelf life

Nitotile GPX 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 GPX contains cement powders which, when mixed with water or upon becoming damp, release alkalis which can be harmful to the skin. Hence,use hand gloves of type Butyl Rubber and vinyl.

During use, avoid inhalation of the dust and contact with the skin or eyes. Wear suitable protective clothing - eye protection, gloves and respiratory equipment, particulate filter, type P2 (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 GPX 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 :

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