

**CEMENTITIOUS, POLYMER MODIFIED GENERAL PURPOSE TILE ADHESIVE**

**Description**

NIROTILE GP is a polymer modified, cementitious normal setting, self-curing, floor and wall tile adhesive.

Typically used for small, medium sized ceramic tiles on floor / wall and vitrified tiles up to 4 sq.ft on floor in residential environments. Suitable for bonding absorbent and partly absorbent ceramic and vitrified tiles to absorbent construction material substrates. Indoor use.

**Uses**

- Tile on tile applications
- New tiling in internal areas & floors in external
- Ceramics, Marble and decorative cladding
- Kitchens, showers & wet processing areas
- Laboratories, hospitals, canteens, etc
- Tiling swimming pools and fountains
- Tiling corridors, pavements, podiums and roofs

**Advantages**

- Easy to use, only water to be added.
- Long open time
- Good slip resistance
- High adhesive bond strength
- Water proof
- Smooth application

**Characteristics**

Appearance	Free flow grey powder
Water/powder ratio, by weight (approx...)	1:3
Fresh wet density	1800 - 2000 kg/m <sup>3</sup>
Open time	30 Minutes at 25°C
Foot traffic /Groutable	24 Hours at 25°C
Temperature resistance	- 20°C to 80°C
Chloride ion content	< 0.2%

**Standards Compliance:**

It conforms to BS 5980 Type 1 and suitability for contact with potable water as per BS 6920 Part 1.

**Directions for use**

**Surface Preparation**

- Cementitious substrates must be sufficiently cured and dried (2-6 weeks). All substrates must be structurally sound, able to support the weight of the new tiling and provide a stable and securely fixed background. Surfaces shall be clean, dry, free of any loose or friable particles, contaminants such as dust, dirt, oil, wax, polish grease, cement laitance or efflorescence
- Depending on the substrate condition and contaminants to be removed from the surface, use adequate preparation techniques to remove all traces of any materials that could reduce the product's adhesion to the substrate. Smooth surfaces should be roughened lightly to improve adhesion. To confirm adequate surface preparation and coating adhesion, carry out a small trial before full application.
- Any small surface defects and variations in level, profile, or around exposed aggregates can be prefilled and levelled with an additional layer of NIROTILE GP to a maximum thickness of 5 mm, applied at least 24 hrs before full adhesive application. For larger and thicker areas of surface reprofiling and making good, use appropriate mortars from the NIROMORTAR range. Cracks in substrates must be identified and sealed appropriately.
- For applications in hot climates / environments, or on absorbent substrates, thoroughly pre-dampen the surface immediately prior to product application. Avoid any ponding / standing water on the surface. Surface must not be damp to touch.
- For tiling in wet rooms, a suitable waterproofing product / system of NCL should be applied to the substrate before tiling.

## Mixing

NIROTILE 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

NIROTILE GP should be spread on the substrate to a uniform thickness of 2-4mm, 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 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 NIROTILE GROUTs may be commenced 24 hours after tiles have been laid.

## Packaging

NIROTILE GP is supplied in 5 and 25 kg moisture resistant bags.

## Coverage

Approx. 3.8 kg/m<sup>2</sup> @ 2mm thickness.

## Technical support

NIRMAN CHEMICALS provides technical advisory services for on-site assistance and guidance on mix design, optimum dosage evaluation of trials.

## Storage and Shelf life

Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment.

Shelf life is 12 months if kept in a dry store in the original, unopened bags.

## Safety precautions

NIROTILE GP should not be swallowed or allowed to come into contact with skin and eyes. Avoid inhalation of vapours and ensure adequate ventilation.

Suitable protective gloves and goggles should be worn.

Some people are sensitive to resins and solvents. Resin Barrier creams provide additional skin protection. Should accidental skin contact occur, remove immediately with a resin removing cream followed by washing with soap and water - do not use solvent. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting

## Fire

NIROTILE GP is not flammable.

## Cleaning of Tools

Clean all tools and equipment with water immediately after use. Hardened material can be removed using mechanical means.

## Note

All Technical Data Sheets are updated on regular basis; it is the user's responsibility, to obtain the most recent issue.

Field services where provided, does not constitute supervisory responsibility, for additional information contact our local NIRMAN CHEMICALS representative.

## Disclaimer

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labor involved in the application are beyond our control.



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