



INNOVATION | SUSTAINABILITY | EXCELLENCE

NIRMAAHAN

NGPL TileEx GTS





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NGPL TileEx GTS is a high-performance, polymer-modified, cement-based Type 3 tile adhesive, conforming to IS 15477:2019. It is designed for heavy-duty applications including external cladding, wet areas such as swimming pools, and installation of vitrified, glass mosaic, and large format tiles. It provides excellent bond strength, water resistance, and durability even under severe conditions.

APPLICATION

- ▽ Interior Wall and Floor tiling .
- ▽ Bathrooms and Kitchens (dry walls). Ideal for vertical tiling.
- ▽ Can be used for Tile on Tile application.
- ▽ Dry areas with light traffic, Waterproofed substrates, Gypsum Board, plywood substrates & under-tile heating system.
- ▽ Works for non-moisture sensitive stones on interior walls and floors.

ADVANTAGES

- Better bond than conventional cement-based mortar, with improved Bond Strength.
- Specially designed to prevent tile sagging/slippage on vertical walls.
- Fast setting and quick strength development
- Good mechanical strength
- Easy to apply
- Non shrink - excellent bond with the substrate
- Ready to use, only water to be added.

TECHNICAL DETAILS

Technical Data Sheet

Product Name: NGPL TileEx GTS

Technical Specifications (As per IS 15477:2019 – Type 3):

Parameter	Requirement	Test Method
Pot Life	Minimum 2 hours	IS 15477 – Annex B
Open Time (after 20 min)	$\geq 0.5 \text{ N/mm}^2$	IS 15477 – Annex C
Slip	$\leq 0.5 \text{ mm}$	IS 15477 – Annex D
Tensile Adhesion Strength – Initial	$\geq 1.0 \text{ N/mm}^2$	IS 15477 – Annex E
Tensile Adhesion Strength – After Water Immersion	$\geq 1.0 \text{ N/mm}^2$	IS 15477 – Annex E
Tensile Adhesion Strength – After Heat Aging	$\geq 1.0 \text{ N/mm}^2$	IS 15477 – Annex E
Tensile Adhesion Strength – After Freeze-Thaw Cycles	$\geq 1.0 \text{ N/mm}^2$	IS 15477 – Annex E



TECHNICAL PERFORMANCE

Comparison with Type 1 and Type 2 Adhesives:

Feature	Type 1	Type 2	Type 3 (TileEx GTS)
Application Area	Interior dry	Interior & moist	Wet areas, external, industrial
Tensile Adhesion Strength (Initial)	$\geq 0.5 \text{ N/mm}^2$	$\geq 1.0 \text{ N/mm}^2$	$\geq 1.0 \text{ N/mm}^2$
Water Resistance	Low	Moderate	Excellent
Thermal Aging Resistance	Not specified	$\geq 0.5 \text{ N/mm}^2$	$\geq 1.0 \text{ N/mm}^2$
Freeze-Thaw Resistance	Not specified	$\geq 0.5 \text{ N/mm}^2$ (if claimed)	$\geq 1.0 \text{ N/mm}^2$
Recommended Tile Types	Ceramic	Vitrified, Ceramic	Vitrified, Porcelain, Glass mosaic, Natural stone
Usage Area	Low-duty	Medium-duty	Heavy-duty
Open Time - 30 to + 80° C	$\geq 0.5 \text{ N/mm}^2$ (20 min)	$\geq 0.5 \text{ N/mm}^2$ (20 min)	$\geq 0.5 \text{ N/mm}^2$ (20 min)

Final resistance to temperature after 28 days or full cure: - 30 to + 80° C.
The final results may vary based on temperature and humidity. Freeze thaw cycles are having different curing cycles.



How to use

Surface preparation`

All surfaces must be sound and thoroughly clean before NGPL TileEx GTS is applied. All traces of grease or oil must be removed with a chemical degreaser. All loose parcels of mortar, old wallpaper, paint etc. must be physically removed.

Mixing

NGPL TileEx GTS should be mixed with clear potable water in the ratio 3:1 by volume. 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

NGPL TileEx GTS should be spread on the substrate to a uniform thickness of 2-3mm, and then combed horizontally with a serrated trowel. Press 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).

Finishing

Remove excess adhesive with a damp cloth before material has set. Joint grouting may be commenced 24 hours after tiles have been laid.

Cleaning

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

Coverage : Approx. 1.35 to 1.45kg/mm/m²

Standards compliance

NGPL TileEx GTS conform to IS 15477 Type I & II & III.

Description

NGPL TileEx GTS cementitious powder is available in Grey & White colour.



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Estimating

Supply In 30 kg & 20 kg bags

Coverage

Approx. 1.35 to 1.45 kg/mm/m²

Storage

NGPL TileEx GTS must be stored at min+5°C and max +40°C. Avoid direct sunlight.

Shelf life

NGPL TileEx GTS has a shelf life of 12 months if kept in a dry store in the original, unopened bags.

Health and safety

NGPL TileEx GTS does not fall into the hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes. Suitable protective gloves and goggles should be worn. Splashes on skin should be removed with water. 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.



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