

PG-1000^{eco}



DESCRIPTION

PG-1000eco is a two part polyurethane based solvent and water free tile adhesives which are, waterproof, high adhesion and chemical and mechanical resistance laying with no vertical slip on rigid and non-absorbent substrates.

AREA OF APPLICATION

Indoor and Outdoor, bonding of wall and floor ceramic tiles, Porcelain tiles, Marble, stone material and mosaics of all types on:

- Concrete, screeds, renders, asphalt, wood, metal, PVC, reinforced polyester.
- Asbestos-cement sheet,
- Gypsum – plaster
- Absorbent and non-absorbent substrates.
- Rigid substrates



BENEFITS

- Ultra High Strength and adhesion
- Water proof & flexible
- No vertical slip
- Suitable for laying porcelain tiles, ceramic tiles, natural stone, glass & woods of all types.
- Good resistance to acids and ageing
- Long mixture pot life, easy and fast to apply
- Perfect adhesion to all surfaces used in building
- High deform ability
- Highly thixotropic

TECHNICAL INFORMATION

Properties	Results
Appearance	Part – A(Base) – White thick paste Part – B(Hardener) – Creamy viscous paste
Consistency of mix	Highly viscous(non-slip)
Density	Part-A= 1.65g/cc Part-B= 1.34g/cc
Packing size	1kg mop(800g+200g) 5kg mop(4kg+1kg) 10kg mop(8kg+2kg)
Pot life @27±2°C, 65% humidity, EN 1346	50 min(in bulk mix)
Open time @27±2°C, 65% humidity	60 min(in thin bed 3mm)
Adjustability @27±2°C, 65% humidity	60 min(in thin bed 3mm)
Setting time @27±2°C, 65% humidity	Initial- 8hours Final- 12hours
Foot traffic	24hours
Grouting	Walls= 12hours Floors= 24hours
Coverage*	1kg= 8-10ft ² 5kg= 40-50ft ² 10kg= 80-100ft ²

TECHNICAL STANDARDS AND RESULTS IS 15477:2019

Classification	Property	Requirement	PG-1000 ECO
Type 5Adhesive: based on fixing tiles of apparent porosity less than or equal to 3% (100 mm x 100 mm x 8.0 mm) Shear test	Shear Adhesion Test: Dry condition 28 days.	6.0 N/mm ²	6.85 N/mm ²
	Heat aging condition 28th days	3.0 N/mm ²	3.52 N/mm ²

EN 12004:2008

Test Method	Property	Requirement	PG-1000 ECO
R2TE Adhesive: based on fixing tiles of apparent porosity less than or equal to 3% (50 mm x 50 mm x 8 mm) Tensile test	Tensile adhesion strenght Min. Dry condition 28 days	2.0 N/mm ²	2.80 N/mm ²

APPLICATION INSTRUCTION

SURFACE PREPARATION

Substrates must be compact and consistent, free from dust, rust, oil and grease, free from moisture with no loose and flaky debris or imperfectly anchored parts. The substrate must be stable, non-deformable, without cracks and have already completed the curing period of hydrometric shrinkage. Uneven areas must be corrected with suitable smoothing and finishing products. Rust on iron surfaces must be removed by sandblasting.

MIXING

Pour the part B (hardener) into part A (Base) and mix well until a uniform white paste is obtained. It is advisable to use a low speed electric stirrer to ensure perfect mixing and avoid overheating the mix, which would reduce the working time. Use the mix within 40 minutes of mixing. The user must mix a quantity of adhesive which can be consumed within 1 hour.

APPLICATION METHOD

Apply PG-1000eco to the substrate maintaining a uniform layer with a notched trowel. For exterior installations, the tile backs must be completely covered with the adhesive, when both waterproofing and bonding are required.

For wooden surface, spread PG-1000eco on the substrate with a flat trowel to a thickness of at least 2 mm, then rework the surface with a notched trowel so as to line it all over, but without reducing the thickness to less than 1 mm. This thickness must be maintained even after the tiles have been installed.

CLEANING

PG-1000eco is a two part polyurethane based solvent and water free tile adhesives which are, waterproof, high adhesion and chemical and mechanical resistance laying with no vertical slip on rigid and non-absorbent substrates.

PRECAUTIONS

- ◆ Two Part Polyurethane Based Adhesive
- ◆ Do not use on very damp surfaces or where there is a risk of rising damp.
- ◆ The packs are pre-measured, therefore mixing errors are impossible. Do not use partial quantities. A wrong mixing ratio could cause damage during the curing process.
- ◆ Use the products in temperatures between +15°C to +40°C.
- ◆ In case of use on surfaces subject to continuous immersion in water, consult technical team for assistance.

SHELF LIFE

PG-1000eco has a shelf life of 12 months in unopened packs, if kept in a dry storage condition. And protect from direct sun light. Before using each component for **APPLICATION** stir **WELL** before use.

HEALTH AND SAFETY INFORMATION

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

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