



PEGOLAND® PROFESIONAL PORCELÁNICO



DESCRIPTION

Cementitious adhesive with mixed binders, excellent workability, low dust emission, low VOC emissions, and great whiteness, high adhesion, with reduced slip and extended open time, suitable for the installation of interior and exterior floors, interior walls and plinths. Installation of new flooring on top of existing one and radiant heating floors. Adhesion of all types of ceramic pieces, porcelain stoneware, marble, granite and natural stone. Suitable for gypsum or anhydrite substrates.

TECHNICAL CHARACTERISTICS

High-strength cement-based product with selected aggregates, synthetic resins, special fibres, and the latest technology additives ensuring strong adhesion, excellent workability and resistance to ageing.

ADVANTAGES AND USES

- Excellent workability and high whiteness.
- Rheologically improved with high stability and excellent performance.
- Creamy thixotropy.
- Technologically advanced, compatible with a wide range of substrates.
- Stable over a broad mixing range.
- High thixotropic efficiency for greater comfort and less effort.
- The product prevents the suspension of dust particles in the environment.
- Due to its water retention power, there is no need to moisten the substrate.
- Low emission of VOCs.
- Reduced slip. Excellent initial adhesion.
- Extended open time, it allows the rectification of pieces.
- High wetting capability.
- Application thicknesses up to 15 mm without loss.
- Adhesion of all types of ceramic pieces (double-fired, single-fired, clinker, etc.), porcelain stoneware, marble, granite and natural stone.
- Suitable for interior and exterior areas.
- Swimming pools renders.
- Suitable for intense traffic floors.
- Suitable for installing larger side pieces of less than 30 cm on renders up to a height of 1.5 m.

SUITABLE SUBSTRATES

- Conventional substrates based on cement, gypsum or anhydrite in which primers are not required.
- On all types of drywall (PYL type), large-format ceramic brick, concrete, cellular concrete, fibre-cement, gypsum brick, mortars, and self-levelling pastes.
- Overlays on marble, granite, terrazzo, natural stone and all types of ceramic substrates for interior floors and walls
- Ceramic installation on interior floors and walls with radiant heating.
- Do not apply on top of paints.
- Substrates must be resistant enough, stable, sound and clean. Free of dust, release agents, organic products, etc.
- All substrates must have the appropriate flatness (maximum deviation tolerance of ± 3 mm measured with



APPLICATION PROCEDURE

- a 2-meter ruler). If this is not the case, make screeds of up to 5 mm with the same product 48 hours before gluing. For a greater thickness apply:
 - On bonded screeds: Apply levelling paste NIVELAND 10R or PAVILAND RECRECIDO AUTONIVELANTE depending on the substrate and requirements.
 - On flooring: Use regularization mortars with adequate tensile strength and with a curing shrinkage already completed.
- In case of heavy heat, wind or very absorbent substrates, it is advisable to moisten the substrate and wait until the water film is totally absorbed.
- In exterior floors, the substrate must have a slope equal or greater than 1%.
- Do not apply in areas in contact with water or high-sulphate content moisture.
- All substrates must comply with the specifications outlined in section 6.4 of UNE 138002 standard.
- Add between 25-30% (approximate 5.0-6.0 litres of water per 20kg sack) and mix manually or mechanically until getting a homogeneous and workable consistency.
- Let the paste rest around 5 min. and mix again.
- Spread the kneaded product on the substrate with a trowel in a maximum extension of 2 m²
- Comb with a notched trowel to adjust the thickness (see table).
- Install the tiles on the fresh adhesive, pressing and moving them until getting a complete smashing of the grooves and the proper adhesion of the entire ceramic surface. Periodically check the stickiness of the adhesive by lifting a previously laid tile, if the appearance of a film without transfer on the surface of the adhesive or dehydration of the adhesive is observed, proceed to remove the material and apply a new product.
- Installation of tiles by back buttering method outdoors, for tiles with a bigger to 45 cm side, on floors for commercial or industrial use. If there is radiant heating, in the installation of ceramic tiles, if levelling systems are used or if the tiles have a relief that may interfere the gluing process.
- Respect the placement joints between tiles as indicated in section 7.7 of UNE 138002 standard. For interior and pool areas, the joint width should be $\geq (1.5 - 3)$ mm, and for exterior areas, the joint width should be $\geq (3 - 5)$ mm, depending on the type of installation and the larger side of the tile being placed.
- Joints should be refilled after 24 hours in vertical parameters and 48 hours after in floors.
- Use a suitable mortar from the MORCEMCOLOR, taking into account the type of joint.

NOTE: The shorter the time between combing and laying the tile, the better results will be obtained.

Maximum tiles' weight in vertical parameters: 40 kg/m²

Type of tiles	Longer side cm	Trowel for adhesive application to the substrate	Trowel for adhesive application On the back side of the tile
Mosaic	≤ 10 cm	V 3	-
	≤ 20 cm	U 6	-
	≤ 30 cm	U 6	-
	≤ 45 cm	U 8	-
Ceramic tile	≥ 45 cm	U 8	Smooth
	≤ 120 cm	U 10 / R 10	Smooth
	≥ 120 cm	U 12 / R 12	Smooth / V 3 / U 3
Ceramic sheet	≤ 90 cm	U 6	Smooth
>3 mm - ≤ 6 mm	≤ 260 cm	U 8	Smooth / V 3 / U 3
Ceramic sheet	≤ 360 cm	U 10	Smooth / V 3 / U 3
>6 mm - ≤ 9 mm			

NOTE 1 In the case of extruded tiles or those with a pronounced back, it is always necessary to carry out a double spreading with the smooth side of the trowel, regardless of the tile format.

NOTCHED-TROWEL PANEL

RECOMMENDATIONS

- The successful completion of ceramic installation can only be ensured through careful planning. Therefore, we recommend consulting the current national standards in each country, such as the UNE 138002 standard in Spain, which provides specifications for material selection, proper planning, use, and installation, to achieve the required levels of quality, performance, and durability.
- Do not apply in temperatures below 5°C or above 35°C, and avoid application in conditions at risk of frost, rain, strong winds, or direct sunlight. Under extreme weather conditions (high wind or high temperatures) drying occurs faster.
- Temperatures, ventilation, absorption of the substrate and coating materials can vary the workability and setting times of the adhesive.
- Never apply with the "by dots" technique.
- Respect the movement joints (structural, contraction, expansion, and perimeter joints) as indicated in section 7.8 of UNE 138002 standard. These joints can be addressed by using prefabricated joints or filling them with an elastic sealant from the PUMALASTIC range.

Dimensioning of expansion joints

Application scope	Location and dimensions	Width of the joint mm
Exterior walls	- Under each slab - Separation length 3 m - 4 m linear - Maximum regular area. 16 m²	≥ 8 mm
Interior floors	- Respect open contraction joints - Otherwise: separation length ≤ 8 m linear - Maximum regular area 40 m²	≥ 5 mm
Exterior floors	- Separation length 2.5 m - 5 m linear - Maximum regular area 16 m²	≥ 8 mm
Singular points	- Door steps - Changes of floors	≥ 8 mm
NOTE When these joints affect every coat in the ceramic system, they must meet the conditions of shrinkage joints		

Dimensioning of perimeter joints

Application scope	Location and dimensions	Width of the joint mm
Interior walls	- Perimeter joints - Wall / ceiling intersection	≥ 8 mm
	- Wall / wall intersection	≥ 5 mm
Exterior walls	- Interior corners of the building - Exterior corners of the building	≥ 8 mm
Interior floors - Monolithic - Parquet	- Perimeter joints and intersections with other elements or devices	≥ 8 mm
Exterior floors	- Perimeter joints and intersections with other elements or devices	≥ 8 mm
Singular points	- Joints intersections in carpentry meetings	≥ 5 mm

- On floors with radiant heating, apply when the substrate is at room temperature (between 5°C and 30°C). The radiant heating must be turned off at least 48 hours in advance and it must be turned on gradually after at least 7 days from the installation of the flooring and the grouting operation.
- Swimming pools can be filled 7 days after applying the adhesive. The water tightness of the pool must be ensured by the construction of the pool itself.
- In applications on drywalls, make sure the substrate is well fixed to prevent movement.
- Remove any spare or bad adhered pieces in ceramic floors and fill the gaps with mortar one day before the actual application of the product. Make sure the old ceramic is free from greases or waxes, if necessary, mill the surface until the old pottery loses its shine. In case of doubt, carry out a preliminary test to establish the suitability of the solution provided.
- Anhydrite screeds must be perfectly dry (maximum residual moisture 0.5%), hard enough and free of dust or superficial grout, in the latter case, it must be removed by sanding.
- For pieces with fibreglass mesh reinforcement glued on the back, consult technical department. Use

PEGOLAND PROFESIONAL RANGE

PEGOLAND® PROFESIONAL PORCELÁNICO

PACKAGING AND STORAGE

TECHNICAL DATA

- PEGOLAND FLEX RECORD or PEGOLAND PROFESIONAL ELITE for slate
- Pieces that can get stained due to their high-water absorption must be placed with fast-setting adhesives. Use PEGOLAND FAST FLEX C2FTE S1.

20 Kg laminated paper bags. Shelf life: 1 year in sealed original packaging, sheltered from weather conditions and humidity.

(Statistic results obtained in standard conditions)

Appearance	White powder and grey
Adjustment time	Approx. 30 minutes (depending on weather conditions)
Paste shelf life	Approx. 2 hours. (depending on weather conditions)
Initial adhesion	$\geq 1 \text{ N/mm}^2$
Adherence after water immersion	$\geq 1 \text{ N/mm}^2$
Adherence after heat ageing	$\geq 1 \text{ N/mm}^2$
Adherence after freeze/thaw cycles	$\geq 1 \text{ N/mm}^2$
Time to pavement pointing and light traffic	48 h
Time to rendering pointing	24 h
Time to swimming pool filling	7 days
Service temperature	-30°C to 90°C
Classified according to UNE EN 12004:2008	C2 TE
Approx. yeld	Simple gluing: 4Kg/m ² Double gluing: 6Kg/m ²

ENVIRONMENTAL PRODUCT DECLARATION (EPD)

LEGAL DISCLAIMER

This mortar has been elaborated with aggregates located close to our production centres, which has, reduce the emission of greenhouse effect gases thanks to transport and ISO 14001 certified production centres with environmental management, with a firm commitment to sustainability and respect for the environment. Type III eco-friendly labelled mortar (The strictest one) verified Environmental Product Declaration by AENOR

The instructions for use are given according to our tests and knowledge and do not imply any commitment by GRUPO PUMA nor free the consumer from the examination and verification of the products for their correct use. Claims must be accompanied by the original packaging to allow a proper traceability.

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