



PEGOLAND® GEL PORCELÁNICO C2 TE

DESCRIPTION

Cementitious adhesive of mixed binders with excellent workability, endowed with flexibility, great adhesion, with reduced slip and extended open time, for the installation of interior and exterior floors, interior walls, and exterior plinths. Laying of new flooring on top of existing flooring and underfloor heating. Adhesion of all types of ceramic pieces, porcelain stoneware, marble, granite, and natural stone. Suitable for gypsum or anhydrite.

TECHNICAL CHARACTERISTICS

High-resistance cement-based product, with selected aggregates, additives and synthetic resins that guarantee high bond strength, excellent workability, and resistance to ageing.

ADVANTAGES AND USES

- Excellent workability.
- Creamy aspect with excellent consistence which makes it easy to apply.
- Reduced slip.
- Excellent initial adhesion.
- Long open time, it allows the rectification of tiles.
- 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 pavements.
- Suitable for placing larger side pieces of less than 30 cm on walls up to a height of 1.5 m.

SUITABLE SUBSTRATES

- Conventional substrates based on cement, gypsum or anhydrite in which primers are not required. 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 underfloor heating. Suitable for all type of plasterboard partitions (type PYL). Do not apply on top of paint.
- Substrates must be resistant enough, stable, sound, and clean. Free of dust, release agents, organic products, etc.
- All substrates should have adequate flatness. 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 plinth: Use levelling paste or screed mortar for plinths, according to 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.

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APPLICATION PROCEDURE

- Add water (26%-30%) and mix manually or mechanically until getting a homogeneous consistence, easy to work with.
- Let the paste rest around 7 min. then mix again.
- Spread the kneaded product on the substrate with the help of a trowel on a maximum extension of 2 m².
- Comb the area with a notched trowel to level the thickness (Check table).
- Place the tiles on the fresh adhesive, pressing and moving them until getting a complete smashing of the grooves and the proper adhesion of all the 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.
- Laying of tiles by back buttering method outdoors, for formats greater than 900 cm², on floors for commercial or industrial use. If there is underfloor heating, in the laying 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 walls and 48 hours after in floors. Use a suitable mortar from the MORCEMCOLOR, considering the type of joint.

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

NOTCHED-TROWEL PANEL

Maximum tiles weight on walls: 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	-
Ceramic tile	≤ 45 cm	U 8	-
	≥ 45 cm	U 8	Smooth
	≤ 120 cm	U 10 - R 10	Smooth
	≥ 120 cm	U 12 - R 12	Smooth / V3 / U3
Ceramic sheet >3 mm - ≤ 6 mm	≤ 90 cm	U 6	Smooth
	≤ 260 cm	U 8	Smooth / V3 / U3
Ceramic sheet >6 mm - ≤ 9 mm	≤ 360 cm	U 10	Smooth / V 3 / U 3
NOTE 1 In the case of extruded tiles or those with a pronounced back, it is always necessary to conduct a double spreading with the smooth side of the trowel, regardless of the tile format.			

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 below 5°C or above 35°C, and avoid application in conditions at risk of frost, rain, intense winds, or direct sunlight. Under extreme weather conditions (high wind or elevated 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 by "spot bonding" technique.

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- 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: linear separation lengths ≤ 8 m. - 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	- Doorsteps - Changes of floors	
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	
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	
Singular points	- Intersection joints at encounters with carpentry	≥ 5 mm

- On underfloor heating, apply when the substrate is at room temperature (between 5°C and 30°C). In floors with underfloor heating, it 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 refilled 7 days after applying the adhesive. The water tightness of the pool must be ensured by the construction of the pool itself.
- On drywall applications, make sure the substrate is well fixed to prevent movement.
- Remove any spare or bad adhered pieces on 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, conduct 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.
- Use PEGOLAND FLEX RECORD or PEGOLAND PROFESIONAL ELITE for slate.
- For pieces with fibreglass mesh reinforcement glued on the back, consult technical department.
- Pieces that can get stained due to their high-water absorption must be placed with fast-setting adhesives. Use PEGOLAND FAST FLEX C2FTE S1.

PACKAGING AND STORAGE

25Kg of laminated paper sacks.

Store up to 1 year in its original closed container, away from extreme weather conditions and humidity.

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TECHNICAL DATA

(Statistic results obtained under standard conditions)

Aspect	White powder
Adjusting time	Approximately. 30 minutes (according to environmental conditions)
Lifetime of the paste	Approximately. 2 hours (according to environmental conditions)
Initial adhesion	$\geq 1 \text{ N/mm}^2$
Adhesion after water immersion	$\geq 1 \text{ N/mm}^2$
Adhesion after ageing caused by heat	$\geq 1 \text{ N/mm}^2$
Adhesion after ice / 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 a 90°C
Classification according to EN 12004	C2TE
Average performance	Simple gluing: 4 Kg/m ² Back buttering method: 6 Kg/m ²

LEGAL DISCLAIMER

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.

GRUPO PUMA is not responsible, in any case, for the application of its products or constructive solutions carried out by the application company or other parties involved in the process and / or execution of the work, limiting the responsibility of GRUPO PUMA exclusively to the damages directly attributable to the supplied products, individually or integrated in systems, due to failures in their manufacturing process.

In any case, the drafter of the work project, the technical management or the person responsible for the work, or collaterally the application company or other parties involved in the process and / or execution of the work, must ensure the suitability of the products addressing the characteristics of them, as well as the conditions, support and possible pathologies of the work in question.

The values obtained by GRUPO PUMAS's products or its constructive solutions that, as the case may be, are determined by the EN standards or any other regulation that applies to it in each case refers exclusively to the conditions specifically stipulated in said regulation and that are referred to, among others, to certain characteristics of the support, humidity and temperature conditions, etc. without being them required in the tests obtained under different conditions, all in accordance with the relevant regulation.