



## 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.

# TILE AND STONE ADHESIVES

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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 m<sup>2</sup>.
- 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 cm<sup>2</sup>, 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/m<sup>2</sup>

| 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                                                                                                                                                                                        | $\leq 10$ cm   | V 3                                              | -                                                            |
|                                                                                                                                                                                               | $\leq 20$ cm   | U 6                                              | -                                                            |
|                                                                                                                                                                                               | $\leq 30$ cm   | U 6                                              | -                                                            |
| Ceramic tile                                                                                                                                                                                  | $\leq 45$ cm   | U 8                                              | -                                                            |
|                                                                                                                                                                                               | $\geq 45$ cm   | U 8                                              | Smooth                                                       |
|                                                                                                                                                                                               | $\leq 120$ cm  | U 10 - R 10                                      | Smooth                                                       |
|                                                                                                                                                                                               | $\geq 120$ cm  | U 12 - R 12                                      | Smooth / V3 / U3                                             |
| Ceramic sheet<br>>3 mm - $\leq 6$ mm                                                                                                                                                          | $\leq 90$ cm   | U 6                                              | Smooth                                                       |
|                                                                                                                                                                                               | $\leq 260$ cm  | U 8                                              | Smooth / V3 / U3                                             |
| Ceramic sheet<br>>6 mm - $\leq 9$ mm                                                                                                                                                          | $\leq 360$ 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                                                                                                     | <ul style="list-style-type: none"> <li>- Under each slab</li> <li>- Separation length 3 m - 4 m linear</li> <li>- Maximum regular area. 16 m<sup>2</sup></li> </ul>                           | ≥ 8 mm                |
| Interior floors                                                                                                    | <ul style="list-style-type: none"> <li>- Respect open contraction joints.</li> <li>- Otherwise: linear separation lengths ≤ 8 m.</li> <li>- Maximum regular area. 40 m<sup>2</sup></li> </ul> | ≥ 5 mm                |
| Exterior floors                                                                                                    | <ul style="list-style-type: none"> <li>- Separation length 2.5 m - 5 m linear</li> <li>- Maximum regular area 16 m<sup>2</sup></li> </ul>                                                     | ≥ 8 mm                |
| Singular points                                                                                                    | <ul style="list-style-type: none"> <li>- Doorsteps</li> <li>- Changes of floors</li> </ul>                                                                                                    |                       |
| 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                                                                    | <ul style="list-style-type: none"> <li>- Perimeter joints</li> <li>- Wall /ceiling intersection</li> </ul>                       | ≥ 8 mm                |
|                                                                                   | <ul style="list-style-type: none"> <li>- Wall /wall intersection</li> </ul>                                                      | ≥ 5 mm                |
| Exterior walls                                                                    | <ul style="list-style-type: none"> <li>- Interior corners of the building</li> <li>- Exterior corners of the building</li> </ul> |                       |
| Interior floors                                                                   | <ul style="list-style-type: none"> <li>- Perimeter joints and intersections with other elements or devices</li> </ul>            | ≥ 8 mm                |
| <ul style="list-style-type: none"> <li>- Monolithic</li> <li>- Parquet</li> </ul> |                                                                                                                                  |                       |
| Exterior floors                                                                   | <ul style="list-style-type: none"> <li>- Perimeter joints and intersections with other elements or devices</li> </ul>            |                       |
| Singular points                                                                   | <ul style="list-style-type: none"> <li>- Intersection joints at encounters with carpentry</li> </ul>                             | ≥ 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 <sup>2</sup><br>Back buttering method: 6 Kg/m <sup>2</sup> |

### 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.

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