



## PEGOLAND® UNO

Cementitious adhesive



GlobalEPD  
A VERIFIED ENVIRONMENTAL DECLARATION



### DESCRIPTION

Tile adhesive. For setting indoor and outdoor ceramic flooring, and indoor walls. Suitable for bonding ceramic tiles with a medium-high absorption rate. Ideal for conventional cement-based substrates. In addition, this cement-based adhesive has good workability and high bond strength.

### TECHNICAL CHARACTERISTICS

High-strength cement, selected aggregates and additives product, which contributes to its great workability and strength.

### ADVANTAGES AND USES

- Adhesion of medium to high absorption level ceramic tiles.
- Suitable for interior and exterior use.

### SUITABLE SUBSTRATES

- Conventional cement-base substrates.
- 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 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 on top of gypsum, plaster, anhydrite, or any other substrates with high content of sulphates, or in contact with water or moisten with high content of sulphates.
- All substrates must comply with the specifications outlined in section 6.4 of UNE 138002 standard.

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### APPLICATION PROCEDURE

- Add water and mix manually or mechanically until getting a homogeneous consistence, easy to work with. Let the paste rest around 5 min. then mix again.
- Spread the kneaded product on the substrate with the help of a trowel on a maximum extension of 2m<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 tiles with superior to 45 cm side, 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 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 pavements.
- Use a suitable MORCEMCOLOR range mortar considering 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: 30 kg/m<sup>2</sup>

### NOTCHED-TROWEL PANEL

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

NOTE 1: In the case of extruded tiles or those with a pronounced back, a back buttering method is always required using 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 in temperatures 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 with the "by dots" technique.
- Do not apply in areas where there is a risk of stagnant water.
- Respect the movement joints (structural, contraction, expansion, and perimeter joints) as indicated in

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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.

### Expansion joint sizing

| Scope of application                                                                                                  | Location and dimensions                                                                                                                                                                       | Joint width mm |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Exterior walls                                                                                                        | <ul style="list-style-type: none"> <li>- Below each floor 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>- Door steps</li> <li>- Changes of floor</li> </ul>                                                                                                    |                |
| NOTE: When these joints affect all layers of the ceramic system, they must meet the conditions of contraction joints. |                                                                                                                                                                                               |                |

### Sizing of perimeter joints

| Scope of application                                                               | Location and dimensions                                                                                                          | Joint width mm |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------|
| Interior walls                                                                     | <ul style="list-style-type: none"> <li>- Perimeter joints</li> <li>- Wall /ceiling joint</li> </ul>                              | ≥ 8 mm         |
| Exterior walls                                                                     | <ul style="list-style-type: none"> <li>- Wall / wall joint</li> </ul>                                                            | ≥ 5 mm         |
| Interior floors                                                                    | <ul style="list-style-type: none"> <li>- Interior corners of the building</li> <li>- Exterior corners of the building</li> </ul> |                |
| <ul style="list-style-type: none"> <li>- Monolithic</li> <li>- Floating</li> </ul> | <ul style="list-style-type: none"> <li>- Perimeter joints and joints with other elements or devices</li> </ul>                   | ≥ 8 mm         |
| Exterior floors                                                                    | <ul style="list-style-type: none"> <li>- Perimeter joints and joints with other elements or devices</li> </ul>                   |                |
| Singular points                                                                    | <ul style="list-style-type: none"> <li>- Joints at encounters with carpentry</li> </ul>                                          | ≥ 5 mm         |

- Use a PEGOLAND PROFESIONAL range adhesive for gypsum-based substrates, avoid old gypsum or weak plaster.
- 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

25 kg plastic-lined paper bags.

Shelf life: 1 year in sealed original packaging, sheltered from weather conditions and humidity.

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### TECHNICAL DATA

| (Statistical data obtained under standard conditions) |                                                   |
|-------------------------------------------------------|---------------------------------------------------|
| Aspect                                                | WHITE or GREY powder                              |
| Adjustment time                                       | Approx. 20 min. (depending on weather conditions) |
| Paste shelf life                                      | Approx. 2 hours (depending on weather conditions) |
| Initial tensile adhesion strenght                     | $\geq 0,5 \text{ N/mm}^2$                         |
| Tensile adhesion strenght after water immersion       | $\geq 0,5 \text{ N/mm}^2$                         |
| Tensile adhesion strenght after heat ageing           | $\geq 0,5 \text{ N/mm}^2$                         |
| Tensile adhesion strenght after freeze-thaw cycles    | $\geq 0,5 \text{ N/mm}^2$                         |
| Time to pavement pointing and light traffic           | 48 h                                              |
| Time to rendering pointing                            | 24 h                                              |
| UNE-EN 12004 Classification                           | C1                                                |
| Approximate yield                                     | Simple gluing: 4 Kg/m <sup>2</sup>                |
|                                                       | Double gluing: 4 Kg/m <sup>2</sup>                |

### ENVIRONMENTAL PRODUCT DECLARATION (EPD)

Cement based mortar prepared with aggregates that are supplied close to the production center, which reduces the greenhouse gas emissions that would otherwise arise from their transport. Manufactured in production centers with an Environmental management certified system following ISO 14001 regulation, offering a firm promise of sustainability and respect for the environment.

Cement based mortar with type III ecological label (the most strict) Environmental Product Declaration verified externally by AENOR.

### 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.

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