



## PEGOLAND® FLEX RECORD

Two- component cementitious adhesive with high-performance for demanding applications



### DESCRIPTION

Two-component cementitious adhesive with high-performance for demanding applications. Specially recommended for the installation of big format pieces on big surfaces (façades and floors). Perfect adhesive for all kind of ceramic tiles in both outdoors and indoors. Reduced slip and excellent initial adhesion.

### TECHNICAL CHARACTERISTICS

Two-component product based on high-strength white cement, selected aggregates and special additives, and dispersion resin.

### ADVANTAGES AND USES

- Reduced slip.
- Excellent initial adhesion.
- Long open time, it allows the rectification of pieces.
- Very deformable. S2 type according to EN 12002.
- Adhesion of all types of ceramic pieces, porcelain stoneware, marble, granite, and natural stone.
- Adhesion of large-format pieces and / or low thickness, bonding of big surfaces with heavy traffic.
- Suitable for interior and exterior areas. Façades.
- Swimming pool renders.
- Cold storage rooms render.

# TILE AND STONE ADHESIVES

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### SUITABLE SUBSTRATES

- Conventional cement-base substrates.
- Suitable for all type of drywall partitions (PYL type).
- Overlays on marble, granite, terrazzo, natural stone, and all types of ceramic substrates for interior and exterior floors and interior walls.
- Ceramic installation on interior floors and walls with underfloor heating.
- Installation of ceramic on cementitious weather resistant systems from the MORCEM DRY range. 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 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.

### APPLICATION PROCEDURE

- The kit basically contains one single bucket with both the components : a bag of powder and a container of liquid resin. Mix both components mechanically without adding anything, until a homogeneous paste is obtained.
- 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).
- Use the back buttering method for big format tiles.
- 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 a bigger to 45 cm side, 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 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.

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### NOTCHED-TROWEL PANEL

Maximum tiles weight in vertical parameters: 60 kg/m<sup>2</sup>

| 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                          | ≤ 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<br>>3 mm - ≤ 6 mm | ≤ 90 cm        | U 6                                                              | Smooth                                                                       |
|                                 | ≤ 260 cm       | U 8                                                              | Smooth / V 3 / U 3                                                           |
| Ceramic sheet<br>>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, a back buttering method is always required using the smooth side of the trowel, regardless of the tile format.

### RECOMMENDATIONS

- The durability of ceramic installation can only be ensured with proper 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.
- 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

| Scope of application | Location and dimensions                                                                                      | Joint width mm |
|----------------------|--------------------------------------------------------------------------------------------------------------|----------------|
| Exterior walls       | - Bellow each floor slab<br>- Separation length 3 m - 4 m linear<br>- Maximum regular area 16 m <sup>2</sup> | ≥ 8 mm         |
|                      | - Respect open contraction joints.                                                                           |                |
| Interior floors      | - Otherwise: linear separation lengths ≤ 8 m.<br>- Maximum regular area. 40 m <sup>2</sup>                   | ≥ 5 mm         |
| Exterior floors      | - Separation length 2.5 m - 5 m linear<br>- Maximum regular area. 16 m <sup>2</sup>                          | ≥ 8 mm         |
| Singular points      | - Door steps<br>- Changes of floor                                                                           |                |

NOTE: When these joints affect all layers of the ceramic system, they must meet the conditions of contraction joints.

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### Sizing of perimeter joints

| Scope of application                          | Location and dimensions                                                  | Joint width mm |
|-----------------------------------------------|--------------------------------------------------------------------------|----------------|
| Interior walls                                | - Perimeter joints                                                       | ≥ 8 mm         |
|                                               | - Wall / ceiling joint                                                   |                |
|                                               | - Wall / wall joint                                                      | ≥ 5 mm         |
| Exterior walls                                | - Interior corners of the building<br>- Exterior corners of the building |                |
| Interior floors<br>- Monolithic<br>- Floating | - Perimeter joints and joints with other elements or devices             | ≥ 8 mm         |
| Exterior floors                               | - Perimeter joints and joints with other elements or devices             |                |
| Singular points                               | - Joints at encounters with carpentry                                    | ≥ 5 mm         |

- On floors with radiant 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.
- In cold rooms, these must be kept off until the correct curing of the adhesive occurs for, at least 7 days, depending on environmental conditions.
- 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.
- For pieces with fibreglass mesh reinforcement glued on the back, consult technical department.
- On façades and exterior cladding, the material will always be placed with fasteners or mechanical fixing when any of the following conditions are met format greater than 2400 cm<sup>2</sup>, one side of the pieces is more than 60 cm, weight greater than 40 kg/m<sup>2</sup> or height greater than 3 meters.
- On façades when placing the top row of tiles at the top, it will be convenient to apply the adhesive with the grooves horizontally to prevent the water that could eventually enter the system from descending through the vertical grooves, affecting a larger area.
- 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.
- Use a PEGOLAND PROFESIONAL range adhesive for gypsum-based substrates, avoid old gypsum or weak plaster.
- 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

Kit Contents: Powder: 20 kg laminated paper sack + Resin: 5.2 kg plastic container  
Store up to 1 year in its original closed container, away from extreme weather conditions and humidity.

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### TECHNICAL DATA

|                                                       |                                                                          |
|-------------------------------------------------------|--------------------------------------------------------------------------|
| (Statistical data obtained under standard conditions) |                                                                          |
| Aspect                                                | WHITE dust                                                               |
| Open time                                             | Approx. 30 min. (depending on weather conditions)                        |
| Adjustment time                                       | Approx. 20 min. (depending on weather conditions)                        |
| Paste shelf life                                      | Approx. 2 hours (depending on weather conditions)                        |
| Initial tensile adhesion strenght                     | $\geq 2,0 \text{ N/mm}^2$                                                |
| Tensile adhesion strenght after water immersion       | $\geq 1,0 \text{ N/mm}^2$                                                |
| Tensile adhesion strenght after heat ageing           | $\geq 1,5 \text{ N/mm}^2$                                                |
| Tensile adhesion strenght after freeze-thaw cycles    | $\geq 1,0 \text{ N/mm}^2$                                                |
| 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                                                             |
| UNE-EN 12004 Classification                           | C2 TE                                                                    |
| UNE-EN 12002 Classification                           | S2                                                                       |
| Approximate yield                                     | Simple gluing: 5 Kg/m <sup>2</sup><br>Double gluing: 7 Kg/m <sup>2</sup> |

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### CE MARK

|                                                                                                                                                                                                                                                                             |                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| <br>1377                                                                                                                                                                                  |                           |
| GRUPO PUMA SL<br>C) Conrado del Campo nº 2 29590<br>Campanillas (Málaga). 04                                                                                                                                                                                                |                           |
| PEGOLAND FLEX RECORD No.: 100195-186<br>EN 12004: 2007+A1:2012<br>Highly deformable improved cementitious adhesive with reduced slip and extended open time, suitable for large-format pieces of all types of absorption for extensive surfaces, both indoors and outdoors. |                           |
| Reaction to fire:                                                                                                                                                                                                                                                           | Class E                   |
| Adhesion:<br>- Initial adhesion to traction                                                                                                                                                                                                                                 | $\geq 1.0 \text{ N/mm}^2$ |
| Durability:                                                                                                                                                                                                                                                                 |                           |
| - Adhesion to traction after water immersion:                                                                                                                                                                                                                               | $\geq 1.0 \text{ N/mm}^2$ |
| - Adhesion to traction after thermal ageing:                                                                                                                                                                                                                                | $\geq 1.0 \text{ N/mm}^2$ |
| - Adhesion to traction after ice / thaw cycles:                                                                                                                                                                                                                             | $\geq 1.0 \text{ N/mm}^2$ |
| Hazardous substances:                                                                                                                                                                                                                                                       | Consult safety data sheet |

### 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.

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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.