PEGOLAND® PORCELÁNICO FLEXIBLE

Cement-based adhesive with mixed binders

CE EN 12004 C2 TE · ÉMISSIONS DANS L'AIR INTÉRIEUR A+ · GlobalEPD A VERIFIED ENVIRONMENTAL DECLARATION

DESCRIPTION

Cementitious adhesive of mixed binders with reduced slip and extended open time, for the installation of interior and exterior floors, interior walls, and exterior plinths. Specially designed for installing new flooring over existing surfaces. Adhesion of all types of ceramic pieces, porcelain stoneware, marble, granite, and natural stone.

TECHNICAL CARACTERISTICS

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

- Reduced slip. Excellent initial adhesion.
- Long open time, it allows the rectification of pieces.
- Due to its water retention power, there is no need to moisten the substrate.
- Adhesion of all types of ceramic pieces, porcelain stoneware, marble, granite, and natural stone.
- Product recommended for grinding.
- Swimming pool renders.
- Suitable for intense traffic pavements.
- Suitable for placing larger side pieces of less than 30 cm on renders up to a height of 1.5 m.

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 floors and walls.
- Ceramic installation on interior floors and walls with underfloor heating. 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 walls: 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^2. 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^2, 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 ≥ (1.5 - 3) mm, and for exterior areas, the joint width should be ≥ (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 range, 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^2.

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	-
Ceramic tile	≤ 20 cm	U 6	-
	≤ 30 cm	U 6	-
	≤ 45 cm	U 8	-
	≥ 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 >3 mm - ≤ 6 mm	≤ 90 cm	U 6	Smooth
	≤ 260 cm	U 8	Smooth / V 3 / U 3
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.			

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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 5ºC or above 35ºC, and avoid application in conditions at risk of frost, rain, strong. 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 using the “spot bonding” 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 - Separation length 3 m - 4 m linear - Maximum regular area 16 m^2	≥ 8 mm
Interior floors	- Respect open contraction joints. - Otherwise: linear separation lengths ≤ 8 m. - Maximum regular area. 40 m^2	≥ 5 mm
Exterior floors	- Separation length 2.5 m - 5 m linear - Maximum regular area. 16 m^2	≥ 8 mm
Singular points	- Door steps - Changes of floor	
NOTE: When these joints affect all layers of the ceramic system, they must meet the conditions of contraction joints.		

Dimensioning of perimeter joints

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

- On underfloor heating, apply when the substrate is at room temperature (between 5ºC and 30ºC). 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, carry out 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

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weak plaster.
- Use PEGOLAND FLEX RECORD or PEGOLAND PROFESIONAL ELITE for slate.
- For pieces with fibreglass mesh reinforcement glued on the back, consult technical department.

PACKAGING AND STORAGE

25 kg plastic-lined paper bags
Shelf life: 1 year in sealed original packaging, sheltered from weather conditions and humidity.

TECHNICAL DATA

(Statistical data obtained under standard conditions)

Aspect	WHITE / GREY powder
Adjustment time	Approx. 30 min. (depending on weather conditions)
Paste shelf life	Approx. 2 hours (depending on weather conditions)
Initial tensile adhesion strenght	≥ 1 N/mm^2
Tensile adhesion strenght after water inmersion	≥ 1 N/mm^2
Tensile adhesion strenght after heat ageing	≥ 1 N/mm^2
Tensile adhesion strenght after freeze-thaw cycles	≥ 1 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	-30ºC a 90ºC
Classification according to EN 12004	C2 TE
Approximate yield	Simple gluing: 4 Kg/m^2
	Double gluing: 6 Kg/m^2

CE MARK

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GRUPO PUMA SL
Av. Agrupación Córdoba, 17. 14014 Córdoba (Córdoba)

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PEGOLAND PORCELANICO FLEXIBLE GRIS Nº: 100409-160
EN-12004:2007+A1:2012
Improved cementitious adhesive with reduced slip and extended open time, suitable for interior and exterior walls and floors,

Reaction to fire:	Classe E
Adhesion:	
- Initial adhesion to traction:	≥ 1N/mm^2
Durability:	
- Adhesion to traction after water immersion:	≥ 1N/mm^2

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- Adhesion to traction after thermal ageing:	≥ 1N/mm^2
- Adhesion to traction after ice / thaw cycles:	≥ 1N/mm^2
Hazardous substances:	Consult safety data sheet

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Av. Agrupación Córdoba, 17. 14014 Córdoba (Córdoba)

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PEGOLAND PORCELANICO FLEXIBLE BLANCO

Nº: 100010-143
EN-12004:2007+A1:2012
Improved cementitious adhesive with reduced slip and extended open time, suitable for interior and exterior walls and floors

Reaction to fire:	Classe E
Adhesion:	
- Initial adhesion to traction:	≥ 1N/mm^2
Durability:	
- Adhesion to traction after water immersion:	≥ 1N/mm^2
- Adhesion to traction after thermal ageing:	≥ 1N/mm^2
- Adhesion to traction after ice / thaw cycles:	≥ 1N/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.

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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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.

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