

PEGOLAND® GEL S1







DESCRIPTION

Cementitious adhesive of mixed binders with excellent workability, endowed with flexibility, high adhesion, with reduced slip and extended open time, for laying interior and exterior floor and wall tiles. Suitable for any kind of ceramic pieces. Specially recommended for façades, big surfaces floors and radiant heating floors. Suitable for gypsum or anhydrite.

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

- · Creamy aspect with excellent consistence which makes it easy to apply.
- · Excellent workability.
- Reduced slip, excellent initial adhesion.
- Long open time, it allows the rectification of pieces.
- Deformable. S1 type according to EN 12002.
- Due to its water retention power, there is no need to moisten the substrate.
- Adhesion of all types of ceramic pieces (double-fired, single-fired, clinker, etc.), porcelain stoneware, marble, granite, and natural stone.
- Adhesion of large-format pieces, bonding of extensive surfaces with heavy traffic.
- Suitable for interior and exterior areas. Façades.
- Swimming pool renders.
- Cold storage rooms render.



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SUITABLE SUBSTRATES

- Conventional substrates based on cement, gypsum or anhydrite in which primers are not required.
 Suitable for all type of plasterboard 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: Use levelling paste or screed mortar for plinths, according to 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 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.

APPLICATION PROCEDURE

- Add water (24%-30%) 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 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 ≥ (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 suitable joint filling products, 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: 50 kg/m².

Type of tile	Longer side cm	Trowel used for the application of the	Trowel used for the application of the adhesive
"		adhesive to the substrate	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



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≤ 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, 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 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 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 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 	. 0	
Singular points	Door stepsChanges of floor	≥ 8 mm	
NOTE: When these joints affection contraction joints.	ect all layers of the ceramic system, they must meet the	e conditions of	

Sizing of perimeter joints

Scope of application	Location and dimensions	Joint width mm
Interior walls	Perimeter jointsWall /ceiling joint	≥ 8 mm
	- Wall / wall joint	≥ 5 mm
Exterior walls	Interior corners of the buildingExterior corners of the building	
Interior floors - Monolithic - 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 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



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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.
- On façades and exterior cladding, the material will always be placed with anchoring or mechanical fixing
 when any of the following conditions are met format greater than 2400 cm², one side of the piece
 measures more than 60 cm, weight greater than 40 kg/m² 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.
- Gypsum or 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.
- For pieces with fibreglass mesh reinforcement glued on the back, consult technical department.
- Cold rooms must be off until the correct curing of the adhesive occurs for, at least 7 days, depending on environmental conditions.
- For slate use suitable adhesives with greater shape change features.
- 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

TECHNICAL DATA

25 kg plastic-lined paper bags.

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

(Statistical data obtained under standard conditions)

Agnest	WHITE poundor
Aspect	WHITE powder
Adjustment time	Aprox.30 min. (depending on weather conditions)
Paste life	Aprox 2 hours (depending on weather conditions)
Initial tensile adhesion strenght	≥ 1,0 N/mm ²
Tensile adhesion strenght after water inmersion	≥ 1,0 N/mm ²
Tensile adhesion strenght after heat ageing	≥ 1,0 N/mm ²
Tensile adhesion strenght after freeze-thaw cycles	≥ 1,0 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 90°C
EN 12004 Classification	C2 TE
EN 12002 Classification	S1
Approximate viold	Simple gluing: 4 Kg/m ²
Approximate yield	Double gluing: 6Kg/m ²

ENVIRONMENTAL PRODUCT DECLARATION (EPD)

This mortar has been elaborated with arid located close to our production centres, which has, reduce the emission of greenhouse effect gases thanks to transport and ISO 14001 certified production centres with environmental management, with a firm commitment to sustainability and respect for the environment.

Type III eco-friendly labelled mortar (The strictest one) verified Environmental Product Declaration by AENOR



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LEGAL DISCLAIMER

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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.

