

## **PERMACOL® DATA SHEET**

High performance tile adhesive. For setting indoor and outdoor porcelain flooring, indoor walls. Specially recommended for tiling swimming - pools with vitreous mosaic tiles. Suitable for bonding porcelain tiles with a low-medium absorption rate, marble, mosaic tiles and glass blocks.

### **Composition**

Product based on high resistance cement, selected aggregates, additives and synthetic resins which give excellent bonding, good workability and resistance to ageing.

### **Features and applications**

- To be applied on interior walls and floors or on exterior floors.
- Suitable for porcelain tiles with a low-medium absorption rate.
- No need to wet tiles or substrates thanks to its high water-retaining capacity.
- Non slip. Excellent initial adherence.
- Long open time. Allows rectification.
- Resistant to humidity. Swimming pool tiling.

### **Substrates**

- Conventional cement-based substrates.
- Substrates must be resistant, stable, sound and clean, free of dust, de-molding agents, organic products, etc.
- All substrates must be have the appropriate flatness. Otherwise, smooth down up to 5 cm where necessary with the same product 48 hours prior to bonding.
- For greater thickness, use Mortar Mix® dry mortar for leveling.
- In case of hot or windy weather conditions or when applying over absorbent substrates, it is advisable to wet the substrate and wait till the thin layer of water disappears.
- Do not apply on clay or on paint. On outdoor flooring, substrates must have a gradient equal or superior to 1%.

### **Instructions for use**

- Add water and mix by hand or mechanically until a well-mixed, workable consistency is obtained. Now, let the mixture stand for 5 minutes and remix.
- Spread the mixed product over the surface with a trowel, covering an area not greater than 2m<sup>2</sup>.
- Use a notched trowel to adjust thickness (see chart).
- Lay the tiles, applying pressure and making small rotation movements to ensure that the glue gets in total contact with the whole surface.
- Observe construction joints (expansion, contraction, fraction, perimeter corner joints) and the joints between the cement slabs (minimum 2mm).
- Joints should be grouted 24 hours after if on vertical surfaces, and 48 hours after if on floorings. Use Permafix® Grout (white or coloured) for all the joints – depending on the type of grouting.

**NOTE:** For better results lay tiles as soon as possible after spreading.

## Notched-Trowel Panel

TILE FORMAT	NOTCHED TROWEL	BONDING
< 100 cm <sup>2</sup>	U4 (4 x 4 x 4)	Simple
< 450 cm <sup>2</sup>	U6 (6 x 6 x 6)	Simple
< 900 cm <sup>2</sup>	U6 (6 x 6 x 6) / U9 (9 x 9 x 9) ó n10	Double-Simple
> 900 cm <sup>2</sup>	U9 (9 x 9 x 9) ó n10	Double

## Cautions and recommendations

- Do not apply below 5°C nor above 30°C.
- Do not apply when there is a risk of rain, strong wind or direct sunlight.
- Do not apply in areas where water may accumulate.
- Under extreme weather conditions (gusty winds or high temperatures) drying may occur faster.
- On floor areas larger than 30 m<sup>2</sup>, leave partition joints to be filled with a flexible material.
- On interior floorings larger than 15 m<sup>2</sup>, it is advisable to keep a free perimeter expansion joint between the floor and the wall or pillar, hidden by a baseboard.

## Technical data

(Statistical data obtained under standard conditions)

Aspect	WHITE powder
Apparent density of powder	1.6 ± 0.2 g/cm <sup>3</sup>
Density of mixed product	1.8 ± 0.2 g/cm <sup>3</sup>
Adjustment time	Approx. 30 min. (depending on weather conditions)
Paste shelf life	Approx. 2 hours (depending on weather conditions)
Initial tensile adhesion strength	> 0.5 N/mm <sup>2</sup>
Tensile adhesion strength after water immersion	> 0.5 N/mm <sup>2</sup>
Approximate yield	4kg/m <sup>2</sup>

## Packaging

20 kg plastic lined paper bags.

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

## Note

Instructions of use are given based on our laboratory tests and working knowledge and do not imply any commitment. Said instructions do not free the user from examining and verifying the product for its correct use. The manufacturer's liability is limited to the value of the used goods. Complaints

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must be accompanied with the original package to allow proper traceability. The shorter the time between the spreading and laying of the tile, the better the results obtained.