

PERMA C2+® DATA SHEET

High performance tile adhesive made of mixed bonding agents. High flexibility and adherence for indoor and outdoor floor and wall tiling jobs. Specially recommended for tiling facades, large areas and floors with underfloor heating systems. Suitable for bonding all types of ceramic tiles.

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 indoors and outdoors and on exterior walls (facades).
- Suitable for all types of ceramic tiles. Highly recommended for large format 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.
- Flexible. To tile large areas with intense traffic and floors with underfloor heating
- Resistant to humidity. Swimming pool tiling.

Substrates

- Conventional cement-based substrates.
- Interior ceramic cladding and flooring. (tile over tile)
- Interior and exterior ceramic flooring and cladding.
- 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 mm 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 2m².
- 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 appropriate grout from the Permafix® Grout range (white or coloured) for all the joints – depending on the type of joint.

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

Notched-Trowel Panel

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

Maximum weight on vertical surfaces: 40kg/m²

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 m², leave partition joints to be filled with a flexible material.
- On interior floorings larger than 15 m², it is advisable to keep a free perimeter expansion joint between the floor and the wall or pillar, hidden by a baseboard.
- On floors with underfloor heating, apply when substrate is at room temperatura (between 5° C and 30°C).
- Check that gypsum board is firmly fixed before applying on it.
- On facades and exterior facings, the material must be secured with mechanical systems.
- The wáter-tightness of the swimming pool must be guaranteed by the underlying concrete structure.

Technical data

(Statistical data obtained under standard conditions)

Aspect	WHITE or GREY powder
Apparent density of powder	1.5 ± 0.2 g/cm ³
Density of mixed product	1.7 ± 0.2 g/cm ³
Adjustment time	Approx. 30 min. (depending on weather conditions)
Paste shelf life	Approx. 2 hours (depending on weather conditions)
Initial tensile adhesion strength	>1 N/mm ²
Tensile adhesion strength after water immersion	>1 N/mm ²
Tensile adhesion strength after heat aging	>1 N/mm ²
Tensile adhesion strength after freeze-thaw cycles	> 1 N/mm
UNE-EN 12004 Classification	C2 TE

UNE-EN 12002 Classification
Appropriate yield

S1
4 Kg/m²

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 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.