



PC-Tilefix® 202

Polymer modified tile adhesive

PC-Tilefix® 202 is a polymer-modified, thin-set tile adhesive specifically designed for ceramic tiles within interior spaces. This versatile adhesive is ideal for use on both vertical and horizontal surfaces, applied over a cementitious substrate. Supplied as a dry-mix mortar, it requires the addition of water prior to application.

FEATURES AND BENEFITS

- Suitable for internal areas, suitable for both floor and wall use.
- Low VOC levels promote a healthy environment.
- Self-curing properties facilitate easy application with minimal labor.
- The product's free-flowing nature simplifies mixing and application.
- No sag formula ensures effortless application on vertical walls without slipping.
- Very low shrinkage reduces de bonding and extends the lifespan of tiles.
- Applicable for bed thickness ranging from 3-12 mm, with a limited extension up to 15mm.

COMPLIANCE / STANDARDS

Created in compliance with C1 (Cementitious) and T (Slip Resistant) requirements specified in ISO 13007 and EN 12004 standards. Additionally, it meets the guidelines of IS 15477:2019 (Type 1) and ANSI A118.1 regulations.

APPLYING THE MIX

- Apply the adhesive onto the substrate, covering an area of up to 1/3 m² at a time (or an amount that can be tiled within 10 minutes). Adverse weather conditions, like intense sunlight, dry winds, or high temperatures, and highly absorbent substrates can reduce the open time, potentially to a few minutes. Thus, diligent monitoring is essential to prevent the formation of a skin on the adhesive surface. Should a skin form, rejuvenate the adhesive by re applying it with a notched trowel.
- It is inadvisable to moisten the adhesive with water once a skin has formed, as water can produce an anti-adhesive film instead of dissolving the skin.
- Apply **PC-Tilefix® 202** onto the surface using the flat side of the notched trowel. Subsequently, use the notched side of the trowel to comb the adhesive to achieve the desired thickness.

AREA OF APPLICATION

- Installation of ceramic and various tiles in bathrooms, kitchens, and facades.
- Tile placement on floors, walls, and other surfaces.
- Application of mosaic tiles, natural stones, marble tiles, etc.
- Installation of gas concrete blocks, insulation boards, polystyrene boards, gypsum boards, etc.
- Cement surface smoothing and repairs.
- Application of a slurry coat on absorbent surfaces prior to tiling.

PRODUCTS PROPERTIES

Physical Properties	Typical Value
Physical appearance	Fine powder
Colour	Grey
Bulk Density	1.45 to 1.50 gm/cc
Mix Density	1.80 to 1.85 gm/cc
Mixing Ratio (powder to water)	3 : 1 by volume
Pot life	2 hours 30 minutes
Open time	10 mins
Adjustability time	15 mins
Ready for grouting on walls	24 hours
Ready for grouting on floor	24 hours
Set to light foot traffic	220 mins
Ready for use	14 days

APPLICATION METHOD

- Begin by cleaning the substrate to eliminate any oil stains, bond-inhibiting compounds, dirt, dust, or laitance, utilizing high-pressure water jetting or other appropriate cleaning methods.
- Ensure that the substrate is level, stable, firmly bonded, and possesses standard absorption qualities.
- Allow the substrate to cure adequately to prevent the occurrence of shrinkage cracks.
- Rectify any local undulations or damages on the substrate at least 48 hours before applying **PC-Tilefix® 202**.
- Thoroughly saturate the surface and remove any excess water before the application of **PC-Tilefix® 202**.

GETTING THE MIX READY

Gradually combine three parts of **PC-Tilefix® 202** with one part of clean water (by volume), blending until a smooth, lump-free paste is achieved using an appropriate stirrer, low-speed drill mix, or another suitable tool. Allow the mixture to rest for 2 minutes post-mixing to mature.

TECHNICAL STANDARDS AND PERFORMANCE

SO 13007 AND EN 12004

Please specify the category	Physical Properties	Requirement	PCWC premier
C1 - Fundamental Characteristics of Traditional Cementitious Adhesives.	Tensile adhesion force	$\geq 0.5 \text{ N/mm}^2$	0.57 N/mm ²
	Tensile adhesion strength following water immersion.	$\geq 0.5 \text{ N/mm}^2$	0.54 N/mm ²
	Adhesive strength retention following heat exposure	$\geq 0.5 \text{ N/mm}^2$	0.52 N/mm ²
	Tensile adhesion strength following a freeze-thaw cycle	$\geq 0.5 \text{ N/mm}^2$	N/A
Slip resistance - T	Slip	$\leq 0.5 \text{ mm}$	No Slip

SO 13007 AND EN 12004

Condition	Physical Properties	Requirement	PCWC premier
Glazed Tile Shear Strength	7 day dry	$\geq 200 \text{ psi (} 1.38 \text{ N/mm}^2 \text{)}$	1.36 N/mm ²
	7 day water immersion	$\geq 150 \text{ psi (} 1.03 \text{ N/mm}^2 \text{)}$	1.05 N/mm ²
Impervious Mosaic (Porcelain) Tile Shear Strength	1 day	$\geq 50 \text{ psi (} 0.34 \text{ N/mm}^2 \text{)}$	0.37 N/mm ²
	7 day dry	$\geq 150 \text{ psi (} 1.03 \text{ N/mm}^2 \text{)}$	1.08 N/mm ²
	28 day dry	$\geq 150 \text{ psi (} 1.03 \text{ N/mm}^2 \text{)}$	1.09 N/mm ²
	7 day water immersion	$\geq 100 \text{ psi (} 0.69 \text{ N/mm}^2 \text{)}$	0.78 N/mm ²
	12 weeks	$\geq 150 \text{ psi (} 1.03 \text{ N/mm}^2 \text{)}$	1.15 N/mm ²



- When applying the adhesive to tiles, ensure thorough coverage of the tile surface to prevent any gaps.
- Maintain an appropriate spacing between tiles to accommodate thermal expansion and contraction.
- Insert **PC-Tilefix® 202** between the tile gaps, ranging from 3 to 12 mm.

NOTE:

The thickness of the bed is influenced by the notch trowel's size and the application angle, as calculated by the formula:

$$\text{BED THICKNESS} = \frac{NW \times NH \times \sin \theta}{(NG + NW)}$$

NW - Notch width

NG - Notch gap

NH - Notch height

θ - Application angle

TILES INSTALLATION

- Clean the stone or tile with water before installation.
- Ensure the tiles are securely embedded in the adhesive by gently sliding or twisting them for uniform and robust adhesion.
- Periodically inspect a tile post-installation to verify proper contact.
- In wet areas, outdoor spaces, and on all floors, ensure the adhesive bed is free of voids.
- Make adjustments to tiles within 15 minutes of installation if necessary.
- Use a damp sponge or cloth to meticulously remove any excess adhesive from the tiles and joints before it sets.
- Allow a minimum of 24 hours before proceeding with grouting.

LIMITATIONS

- Avoid using the product with large format tiles.
- Do not use it to repair vitrified tiles or stones.
- Do not apply on wet screed, ensure the surface is fully cured before application.
- Do not apply on a waterproofing coat. If waterproofing is necessary, consider using **PC-Conbond SBR**.
- For detailed information, please consult the respective data sheets.

COVERAGE

The recommended coverage is approximately 1.45 to 1.50 kilograms per square meter per millimeter of thickness. It is essential to prepare all surfaces meticulously by ensuring they are clean, smooth, level, free of defects, and devoid of any irregularities to achieve the best possible coverage.

PACKAGING

20 kg Bags.

SHELF LIFE

Minimum shelf life of 12 months

CONDITION OF SALE

Sold subject to the company's terms of sale, which can be provided upon request.



PC-WC GLOBAL FZ-LLC

Compass Building, Al Shohada Road Al-Hamra Industrial Zone-FZ,
Ras Al- Khaimah, UAE
Email : info@pc-wc.com
Phone +971542455817 , www.pc-wc.com

TECHNICAL DATA SHEET UPDATED IN
SEPTEMBER 2020
TDS/PC-TILEFIX® 202L/20



All technical data in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

The information, particularly the recommendations relating to the application and end-use of PC-WC products, are given in good faith based on PC-WC's current knowledge and experience of the products when properly stored, handled and applied under normal conditions by PC-WC recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or any other advice offered. The user must test the product's suitability for the intended application and purpose. PC-WC Global FZ-LLC reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Our technical assistance is at the disposal of the users. Consult the latest update of the technical data sheet on our [website www.pc-wc.com](http://www.pc-wc.com)