



## Porcelain Plus

Highly flexible Polymer-modified cementitious adhesive

### Uses

- Specially designed for large porcelain tiles and slabs.
- Can be applied on most known substrates like concrete, plaster, lightweight bricks, blocks, cement and gypsum boards.

### Product Description

Porcelain Plus is a deformable cementitious adhesive with improved characteristics, slip resistance, and extended open time (as per ISO-13007-1 class C2 TE S1 description). It consists of carefully selected sand, fillers, and functional additives. The white powder product is pre-bagged, ready to use, and suitable for all porcelain tile formats and most known substrates. It also has excellent deformation properties and outstanding adhesion strength.

It is suitable for buildings with underfloor heating and can be used internally and externally. Porcelain Plus can be applied on walls at a thickness of 2 - 10 mm and on floors at a thickness of 2 - 20 mm.

### Advantages

- Factory-controlled pre-blend ensures consistently high quality.
- Requires only the addition of water on-site at the time of use.
- Easy tile installation that enables high productivity.
- More coverage.
- Excellent open time with outstanding workability.
- High adhesion to various substrates.
- Suitable for wet and dry areas.
- Can be applied vertically or horizontally.

### Technical Data

Porcelain Plus	Typical Values @ 25°C
Appearance	White Powder
Aggregate Size	0.6 mm max
Application Thickness	2 - 10 mm for Walls 2 - 20 mm for Floors
Dry Density	1100 kg/m <sup>3</sup> ± 100 kg
Wet Density	1400 kg/m <sup>3</sup> ± 100 kg
Mixing Ratio	30 - 34% (W/P)
Yield	≈ 0.9 Lit wet/ 1kg Powder
Pot life	3 hours (@ 23 C°)
Adhesion Strength ISO 13007-2	≥ 1.8 MPa (normal conditions) ≥ 1.5 MPa (7 days dry + 21 days water immersion) ≥ 1.8 MPa (14 days dry + 14 days heat ageing) ≥ 1.5 MPa (25 cycles of freeze-thaw)
Adjustability	≥ 1.8 MPa @ 15 minutes
Mixed Density	1.55 ± 0.1 kg/litre
Deformation ISO 13007-2	Deformable ≥ 2.5 mm and < 5 mm

### Standards Compliance

- ISO 13007 -1 C2 TE S1
- BS EN 12004-1 C2 TE S1

## Usage Instructions

### Surface Preparation

The surface should be sound, clean, and free from loose material, oil, grease, laitance, dirt, curing compound, etc. Dry and absorbent surfaces must be moistened. Ensure that the surface is solid for tiling – especially when the tiles are very large.

### Mixing

Into a container, pour 6 – 7 litres of water then add 20 kg of Porcelain Plus powder and mix using a low-speed electric drill fitted with a suitable paddle until a uniform, lump-free consistency is achieved. Leave the mixed material to mature for about 10 minutes and remix briefly without adding further water before use.

You can blend Porcelain Plus manually for small quantities, however, you must maintain the correct ratio of powder to water. Use the mixed material within 3 hours.

### Application

Apply Porcelain Plus on the substrate by using a suitable trowel depending on the tile size (preferably a 12 mm notched trowel for a slab), then comb it in one direction, Apply Porcelain Plus on the slab's backside using the flat edge of the trowel but do not comb (Back buttering). Install the slab in its place then tap and press firmly (or use a tile fixing vibrator) to ensure that the tile is sitting on the substrate with the maximum coverage and contact between the tile's back and the adhesive on the substrate.

Do not apply Porcelain Plus on an area that takes more than 15 minutes to be tiled!

A useful practice to check the application efficiency is to remove a slab after application directly and observe the contact surface (adhesive on substrate and slab's back), this can be done randomly as per the applicator's point of view and then reinstalled again (this should always be done for the first slab so that the applicator will have an idea on how much adhesive needed for the best contact).

Recommended coverage to be more than 90% for external use and more than 80% for internal use. The slab position can be adjusted without losing any adhesion for 15 minutes.

Leave installed tiles undisturbed for at least 24 hours. Porcelain Plus must not rise between the tile joints higher than half to two-thirds of the thickness of the porcelain slab tiles. It

is recommended to use Vetonit Tile Grout to fill the joint gaps 2 days from tile installation.

- Low temperatures and high air humidity will retard the curing and drying process and vice versa.
- The best coverage can be achieved on flat surfaces

### Cleaning

Clean tools and equipment with water immediately after use. Remove the hardened material using mechanical means.

## Packaging & Coverage

Product	Pack Size	Coverage
Porcelain Plus	20 kg Bag	2.2 - 2.6 m <sup>2</sup> at 6 mm thickness /or 4.4 - 5.1 m <sup>2</sup> at 3 mm thickness (as per mixed density 1400 kg/m <sup>3</sup> ± 100 kg /or 1.4 kg/litre ± 0.1kg)

Stated consumption data are for general guidance. Actual consumption depends on the nature of the substrate, method of application, and wastage.

### Shelf Life & Storage

The original sealed bag of Porcelain Plus has a shelf life of 12 months, provided it is stored off the ground in a dry, shaded place at a temperature below 35°C.

### Health & Safety

Porcelain Plus is highly alkaline; therefore, avoid direct contact with the eyes or skin. It is recommended to use protective gloves and goggles during application. Any skin contact should be washed with soap & water. In case of eye irritation, immediately wash with a copious amount of clean cold water. Seek medical advice.

Porcelain Plus is non-flammable.

### Additional Information

Saveto manufactures a wide range of construction chemicals and specialty products for various applications.

For further information on these products and systems kindly check our website or contact your local Saveto representative.

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