

BENFER SELFWETTING

Rev. 02

SPECIAL HIGH-TECH SELF-WETTING ADHESIVE. FLEXIBLE, QUICK-SETTING AND HARDENING, IT HAS BEEN PROJECTED TO AVOID THE HEAVY OPERATION OF DOUBLE SPREADING WHEN PLACING LARGE-SIZED FLOORS. IDEAL FOR PORCELAIN TILES AND SINGLE FIRED TILES, EVEN ON SMOOTH AND NON-ABSORBENT SUBSTRATES, AND FOR INDOOR AND OUTDOOR OVERLAYING.

TECHNICAL FEATURES:

Self Wetting is a one-pack powder adhesive for laying floor tiles. It contains quality, high strength cements, highly flexible synthetic resins and special additives.

The main benefits deriving from its use are the following:

- It has been formulated to simplify and speed up the laying of large size ceramic or natural stone tiles by eliminating the need for back coating, i.e. buttering the backs of the tiles with fresh adhesive before laying on the bed. **This reduces overall job times by around 35% on average.**
- Having selected the appropriate trowel, Self Wetting can be spread to a **depth of between 8 and 15 mm**, providing a bed on which any material can be laid with ease.
- The “wetting” effect and the long open time combine to maximize contact even with particularly impervious material like fully vitrified stoneware (**porcelain tiles**).
- **Fast bonding time and rapidly developed strength** ensure a more secure outcome of the tiling operation, avoiding problems caused by the premature application of stresses while the floor is still curing.
- It has also been found that Self Wetting significantly increases the **impact resistance** of ceramic tile floors, which typically are hard but also fragile, thus helping to preserve the integrity and appearance of the floor over time.

FIELDS OF APPLICATION:

Laying all types of ceramic or natural stone floor tiles (provided they are stable when they come in contact with water) indoors and outdoors, even on smooth or non-absorbent substrates.

Laying of floors without having to coat the tile backs, as required hitherto for sizes over 30x30 cm.

Laying on heated screeds.

Laying on anhydrite screeds (after priming with Benferprim).

Maximum tile size 3600 cm².

WARNING:

Do not use for installing products with obvious problems of persistent staining if in contact with water even for short periods, in this case use MARMOFLEX or Benfer Jolly.

Do not use for the installation of natural stone and reconstituted tiles which are very unstable in the presence of humidity, such as those made chiefly with green marble, certain types of slate and arenaria, in this case use Benfer Jolly.

Do not use on substrates in anhydrite or on particularly absorbent substrates without first treating them with **Benferprim**.

Do not use on plastics, metals or wood.

Do not use on substrates which are subject to rising damp.

Substrates must be of firm consistency and no less than 30mm deep. Newly laid slabs and screeds must be properly cured (at least six days for each cm depth).



If the depth is less than 30 mm in localized areas, a suitable mesh must be embedded, otherwise the substrate must be taken up and renewed completely.

Before applying Self Wetting, make certain that the surface is free from dirt, paint, grease or wax. To remove grease, wax, oily traces, use an alkaline detergent and then rinse with water. Paint needs to be removed mechanically, and the surface then rinsed clean. Any loose or inconsistent material must be cleared away to leave a firm and stable surface.

For particularly absorbent screeds, especially in the summer, moisten the surface or prime with Benferprim before tiling.

Previous application of Benferprim is also advised with powdery screeds.

Do not bridge existing structural joints, and for unbroken expanses in excess of 30m², create expansion joints selecting convenient break lines such as those along which casting is continued, or where there is a change in gradient, or where the floor meets columns and load bearing walls.

Leave a gap of at least 2 mm both in the substrate and between tiles.

In the summer, protect product sacks and water from direct sun exposure to avoid the temperature of the mix becoming too high. This would cause a decline in the adhesive performance and a too-rapid setting.

PREPARATION OF THE MIXTURE AND METHOD OF USE:

Mix the adhesive with 26% water (25 kg powder to 6.5 litres water approx). Use a mechanical mixer at low rpm. The mix must be homogeneous and lump-free.

Apply the adhesive using a notched trowel suitable for the tiles being laid:

- with square teeth 7-8 mm wide for sizes up to 400 cm² (e.g. 20x20 cm)

- with square teeth 10 mm wide for sizes up to 900 cm² (e.g. 30x 30 cm)

- with round teeth 15 mm wide for larger sizes.

install the tiles by applying sufficient pressure that there is 95-100% contact between tile and floor. To extract maximum performance from the adhesive, it should be worked up at intervals in the bucket, and used within 30 minutes after adding

water and to use the whole mix before preparing and adding another one.

At temperatures of around 20° C, floors laid with Self Wetting can be walked on after 3 hours. A longer wait is needed at lower temperatures, but as this is variable, the floor should be left at least 12 hours and protected from frost or flooding if necessary.

COVERAGE:

This will depend on the condition of the substrate and the type of trowel utilized. With a normal substrate and 8 mm notch, coverage is 5 kg/m²; with 15 mm round notches, coverage is 9-11 kg/m².

PACKAGING:

Self Wetting is available in 25 kg poly-lined bags and 1,500 kg pallet loads.

STORAGE:

In the original unopened packaging in a dry

and cool place.

SHELF LIFE:

9 months from the date printed on the packaging; pursuant to EU directive 2003/53/CE, we inform that the expiry date refers to the efficacy of the reducing agent in relation to Chromium VI salts.



Benfer Selfwetting



PRODUCT TECHNICAL DATA

CONSISTENCY:	POWDER
COLOUR:	DARK GREY
MIXING RATIO:	26 PARTS WATER TO 100 PARTS POWDER BY WEIGHT
POT LIFE:	30 MINUTES
WALK-ON (AT 20°C):	3 HOURS
APPLICATION TEMPERATURE:	+5 TO +35 °C
OPEN TIME (20 °C 50%RH):	30 MINUTES
MIN/MAX TEMPERATURE WHEN CURED:	-30 °C / +90 °C
INITIAL BONDING:	> 1 Mpa
RESISTANCE TO FREEZING:	> 1 Mpa
RESISTANCE TO HEAT:	> 1 Mpa
RESISTANCE AFTER IMMERSION IN WATER:	> 1 Mpa
RESISTANCE TO COMPRESSION:	> 11 Mpa
CONFORMS TO:	EN 12004 CLASS C2FE(G)
INFLAMMABLE:	NO
TOXIC:	NO
STORAGE:	IN THE ORIGINAL UNOPENED PACKAGING IN A DRY AND COOL PLACE.

SHELF LIFE: 9 MONTHS FROM THE DATE PRINTED ON THE PACKAGING; PURSUANT TO EU DIRECTIVE 2003/53/CE, WE INFORM THAT THE EXPIRY DATE REFERS TO THE EFFICACY OF THE REDUCING AGENT IN RELATION TO CHROMIUM VI SALTS.

NB: The information given in this chart is based on our best experience and indicative only.

It must in any event be verified by the end user, who assumes
all liabilities deriving from utilization of the product.