



# QUICSEAL 680

Tileflex Super

## Description

QUICSEAL 680 TILEFLEX SUPER is a two-part highly flexible adhesive for bonding stone and tiles in a variety of applications.

The product is blended from a special selection of acrylic latex blended with high quality fillers and aggregates to obtain bonding mortars with extremely high flexibility and adhesion strength. QUICSEAL 680 mortar provides excellent adhesion to most surfaces and hardens without noticeable shrinkage.

Once cured, QUICSEAL 680 mortar is resistant to water and mild chemicals and durable to shocks, impact, extreme flexing, vibrations and temperature changes.

## Classification:

EN 12004 : C2TE

EN 12002 : S2

## Advantages:

- Latex-fortified mortar – enhanced durability
- Enhanced performance – high strength and durable
- Extended open time – ease of workability and installation
- Slip resistance – important for vertical installations
- High deformability – improved flexibility

## Uses

QUICSEAL 680 is suitable for bonding ceramic tiles, quarry tiles, klinker, mosaics, natural stones, glass mosaics etc.:

- for both wall and floor installations; internal and external areas;
- on conventional cement-sand screeds and renders.
- in swimming pools and jacuzzis, fountains, ponds and water tanks;
- on external facades such as balconies and terraces;
- on areas subjected to chemical contact such as dairies, breweries, food and chemical industries;
- for tile-on-tile installations;
- for areas subjected to heavy traffic such as walkways and pavements;
- on highly flexible substrates such as plywood, gypsum boards, cement-boards, etc.;

## Limitations

Do not use QUICSEAL 680 tile adhesive to bond moisture sensitive stones. Use QUICSEAL fast-set or epoxy range of tile adhesive.

## Substrate Preparation

Substrates must be level, solid and stable. All loose particles, oil, grease, paint, wax or any substance that may inhibit adhesion must be removed.

Extremely porous and powdery substrates (e.g. gypsum or prefabricated panels, etc.) should be treated with QUICSEAL 113 PRIMER C before laying tiles with QUICSEAL 680 adhesive.

It is advisable to allow screeds and renders to cure for at least 7 days and surfaces which have become heated from exposure from direct sunlight should be dampened with water to prevent premature curing.

## Preparing the mix

Pour 1 part of QUICSEAL 680 Part A into a clean container and slowly add 4 parts QUICSEAL 680 by weight and stir with a low speed mechanical mixer until a homogeneous lump free paste is obtained. Leave to rest for 5 minutes and re-stir before use.

## Technical Data

Product Type	Part A – liquid, Part B - powder
Colour	Part A – whitish, Part B – grey or white
Mixing Ratio	1 part liquid to 4 parts powder by weight
Density of Mix	1.6 g/cm <sup>3</sup>
Pot Life	Approx. 90 minutes
Application Temperature	+5 °C to +40 °C
Open Time	Approx. 30 minutes
Adjustability	Approx. 20 minutes
Initial Setting Time	80 minutes
Ready for Light Traffic	24 hours
Service Temperature	-30 °C to 90 °C

CLASSIFICATION	DESCRIPTION	EN 12004 REQUIREMENT	QUICSEAL 680
C2	Adhesion Strength -28 days' -Water immersion -Heat ageing	$\geq 1.0 \text{ N/mm}^2$ $\geq 1.0 \text{ N/mm}^2$ $\geq 1.0 \text{ N/mm}^2$	Passed Passed Passed
T	Slip	$\leq 0.5\text{mm}$	Passed
E	Extended Open Time	$\geq 0.5 \text{ N/mm}^2$ after 30 minutes	Passed
S2	Deformable Adhesive	$\geq 5.0\text{mm}$	Passed

### Application

To achieve good adhesion, firstly apply a thin coat of QUICSEAL 680 paste onto the substrate by using the straight edge of the trowel followed immediately with the appropriate amount of adhesive to achieve the required thickness. The correct notched trowel size to use will depend on the type and size of the tiles

For large sized tiles and tiles with lugs and grooves, apply a coat of QUICSEAL 680 adhesive to the back of the tiles. Lay the tiles onto the adhesive and ensure that a firm pressure is applied to achieve good contact with the adhesive.

Unfavourable climatic conditions such as strong sunlight, wind and high temperature, etc. and very porous substrates may reduce the open time of the adhesive. Hence, careful checks have to be made to ensure that skinning does not occur on the surface of the adhesive before laying the tiles. If a skinning has occurred, rework the adhesive before laying the tiles.

The tiles must be adjusted within 30 minutes after laying and must be protected from rain or strong sun for at least 24 hours.

### Grouting Tile Joints

Tile joints can be grouted usually 24 hours after laying the tiles.

### Cleaning

All tools and hands may be cleaned with abundant water before the adhesive sets. After setting, cleaning becomes very difficult but can usually be helped by solvents.

### Coverage

Approximate 1.6kg per m<sup>2</sup> per 1mm thick  
The coverage is determined by the condition of the substrate.

### Packaging

QUICSEAL 680 is supplied in 25 kg, 100 kg, 1000 kg sets.

### Storage

12 months in a cool and ventilated place in the original packaging

### Important Notes

The information set forth herein is furnished free of charge in good faith and is based on technical data that QUICSEAL considers to be reliable. This information is intended for use by persons having technical skill and at their own discretion and risk. Information contained in this product sheet conforms to the standard detail recommendations and specifications for the installation of QUICSEAL products as of the date of publication of this document. QUICSEAL makes no other warranties and assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. To ensure that you are using the latest, most complete information, please contact QUICSEAL

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