



QUICSEAL 685

Product Name

Tile-Rapid XTD

Description

QUICSEAL 685 is a specially formulated single component fast-setting adhesive for large format tiles installation. It composed of special cement, graded fine sand, synthetic resins and selected additives to obtain a fast curing bonding mortar for non-sag wall installation with extremely high adhesion strength.

QUICSEAL 685 mortar adheres well to most surfaces and hardens without noticeable shrinkage. Once cured, QUICSEAL 685 mortar is resistant to water and mild chemicals and helps to absorb movements from shocks, vibrations and temperature changes.

Classification:

EN 12004 : C2FTES1

Uses

QUICSEAL 685 is used for installing ceramic tiles as well as natural and artificial stones for jobs where tiling and re-tiling work within short period of time is required. Finishes installed with QUICSEAL 685 is ready for light traffic within 4 hours. QUICSEAL 685 is suitable for bonding ceramic tiles, quarry tiles, clinker tiles, mosaics, natural and artificial stones, glass mosaics etc. for:

- both wall and floor installations;
- internal and external areas;
- conventional cement-sand screeds and renders.
- external facades such as balconies and terraces;
- tile-on-tile installations;
- areas subjected to heavy traffic such as walkways and pavements;
- moisture sensitive natural and artificial stones which require a fast-setting adhesive.

Advantages

- Fast return to service, for grouting in 3 – 4 hours
- Extended open time up to 30 minutes when tested in accordance with EN 1346
- Suitable for internal and external application
- Excellent non-sag performance – ideal for large format tiles

Limitations

Do not use QUICSEAL 685 to:

- bond tiles on walls subjected to high flexing and vibration (very thin plywood and gypsum board walls). Use QUICSEAL 605 MULTIPURPOSE PASTE or QUICSEAL 606 TILEFLEX;
- bond extremely moisture sensitive stones or bond tiles on metal surfaces. Use QUICSEAL 612 TILE-POXY.

Technical Data

Product type	Power
Colour	Grey
Mixing Ratio	25kg of QUICSEAL 685 : 6.25-6.75 kg of water
Density of Mix	1.4 - 1.5 g/cm ³
Pot Life	About 75 minutes @ 25°C
Application temperature	From + 5°C to + 35°C
Open Time	About 30 minutes
Adjustability	Approximately. 20 minutes
Initial Setting Time	80 minutes
Ready for Light Traffic	4 hours
Service Temperature	-30°C to 90°C

CLASSIFICATION	DESCRIPTION	EN 12004 REQUIREMENT	QUICSEAL 685
C2	Adhesion Strength after		
	6 hours	≥ 0.5 N/mm ²	Passed
	28 days' cure	≥ 1.0 N/mm ²	Passed
	water immersion	≥ 1.0 N/mm ²	Passed
	heat ageing	≥ 1.0 N/mm ²	Passed
T	Slip	≤ 0.5mm	Passed
E	Extended Open Time	≥ 0.5 N/mm ² after 30 minutes	Passed
S1	Deformable Adhesive	≥ 2.5mm	Passed

Substrate Preparation

Substrates must be flat, 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 before laying tiles with QUICSEAL 685.

It is advisable to allow screeds and renders to cure for at least 7 days for every centimetre thickness and surfaces that have become heated from exposure from direct sunlight should be dampened with water to cool down.

Preparing the mix

Pour 6.25 – 6.75kg of water into a clean container. Slowly add 25 kg of QUICSEAL 685 and stir with a low speed mechanical mixer until a homogeneous paste. Allow the paste to stand for 5 minutes and remix before applying.

Applying the mix

To achieve good adhesion, firstly apply a thin coat of QUICSEAL 685 firmly onto the substrate 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, back butter with a coat of QUICSEAL 685 to the back of the tiles to ensure that the appropriate coverage is achieved. Fix the tiles immediately by pressing them firmly into position with a slight twisting action and tamped firmly to ensure solid bedding without voids.

Laying tiles

It is not necessary to soak tiles before laying with QUICSEAL 685. However, it is a good practice to dip tiles in water to remove dust on the back of the tiles before laying.

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 skinning has occurred, rework the adhesive before laying the tiles.

The tiles must be adjusted within 20 minutes after laying. The laid tiles must not be washed or exposed to rain or strong sun for at least 2 hours.

Grouting Tile Joints

Wall and floor tile joints can be grouted 3 - 4 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 m² per 1mm thick

The coverage is determined by the condition of the substrate.

Packaging

QUICSEAL 685 is supplied in 25kg bag.

Storage

6 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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