



QUICSEAL 612

Tile-Poxy

Description

QUICSEAL 612 TILE-POXY is a specially formulated three-component epoxy resin based product mixed with silica sand and special additives to obtain a bonding paste with extremely high adhesion strength. QUICSEAL 612 TILE-POXY adheres well to most surfaces and hardens rapidly without noticeable shrinkage to allow early foot trafficking. Once cured, TILE-POXY mortars are resistant to water and chemicals.

Classification:

EN 12004 : R1T

Typical Uses

QUICSEAL 612 is suitable as a chemical resistant grout as well as for bonding ceramic tiles, homogenous tiles, quarry tiles, pavers, agglomerates (artificial), natural & moisture sensitive stones, etc. onto:

- both wall and floor;
- internal and external areas;
- conventional cement-sand screeds and renders.
- areas subjected to chemical contact such as dairies, breweries, food and chemical industries;
- bonding tiles on metal surfaces;
- areas subjected to heavy traffic such as walkways and pavements, etc.

Substrate Preparation

The substrates must be clean and sound, free of dust and loose particles. Laitance, oil, grease, mould release agents or curing compound must be removed from concrete surfaces by using wire brush, scabblers or other means.

It is advisable to allow screeds and renders to cure for at least 7 days for every centimetre thickness. Where QUICSEAL 612 is to be applied on concrete, the concrete shall be at least 28 days old.

Technical Data

Product Type	Solvent-free, epoxy-based
Colour	Natural
Consistency of Mix	Very pasty
Pot Life	About 20 - 30 minutes @ 25°C
Ready for Traffic	After 6 hours
Compressive Strength (ASTM D695)	60 MPa
Shear Adhesion Strength (BS EN12003: 1997) -7 days -after water immersion -after thermal shock	$\geq 2.0 \text{ N} / \text{mm}^2$
Open Time: Tensile Adhesion Strength (EN 1346)	$\geq 0.5 \text{ N} / \text{mm}^2$ after not less than 20 minutes
Slip (EN 1308)	$\leq 0.5 \text{ mm}$

Preparing the mix

Mix QUICSEAL 612 (Part A) and Part B together in a clean pail thoroughly using a low speed mechanical paddle mixer for 3-5 minutes. Pour QUICSEAL Part C into the blend and mix for approximately 3 minutes until a homogeneous paste is achieved.

Applying the mix

Using the flat side of a notch trowel, spread the mix on the substrate so as to completely cover the surface. Immediately, use the notched side of the trowel to comb the mix evenly over the substrate. Apply a firm pressure to press the tiles onto the epoxy. If necessary, gently tamp the tiles with a rubber hammer to ensure good contact with the adhesive.

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 612 paste to the back of the tiles.

For bonding on metal substrates and vertical surface, a QUICSEAL epoxy primer is recommended prior to the application of TILE-POXY.

Clean off any excess adhesive or residual mortar from the tiled surface before it hardens. Protect the tiled surface and let the epoxy set for at least 4 hours before grouting the tile joints.

Grouting Tile Joints

Wall tile joints can be grouted usually 4 hours after laying the tiles. Floor tile joints can be grouted usually 6 hours after installation.

Apply the QUICSEAL 612 paste with a hard rubber trowel to fill the joints completely. Remove the surplus paste with a damp nylon scrub pad and cloth. Rinse the sponge with clean water. Continue this process until all excess grout have been removed. Leave for at least 24 hours before allowing foot traffic.

N.B.

Do not use QUICSEAL 612 to grout terracotta tile joints. When grouting unglazed impervious tiles or tiles of contrasting color (eg, beige coloured TILE-POXY against white tiles), a preliminary test is recommended.

Cleaning

Cleaning should begin immediately after application. All tools and hands may be cleaned with abundant water before the adhesive sets. After setting, cleaning can only be done by mechanical means.

Coverage

The approximate coverage of QUICSEAL 612 is 3-6kg/m². The coverage depends on the conditions of the substrate as well as the type of finishes.

Packaging

QUICSEAL 612 is supplied in 15kg 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 used 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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