

Europox TQ

DESCRIPTION:

Europox TQ is a multifunctional two component epoxy resin that can be used as a transparent casting resin.

Europox TQ can also be used as a binder for stone and marble carpets.

This product is characterized and renowned for its high transparency and excellent UV resistance with a high gloss and spotless finish.

CONSUMPTION:

Use 150 - 175 g/m² for a primer layer on cement screed floors. The consumption for the casting layer lies between 1 - 5 kg/m². When used as a binder for stone or marble carpets use 8% binder by weight.

APPLICATION:

Mixing ratio: Component A: Component B = 78,7 : 21,3 (by weight)

Add part B to part A and mix slowly for two minutes until the mixture turns from a turbid to a completely clear liquid.

To ensure thorough mixing pour the materials into a clean second container and let it pre-react for 10 minutes. Then mix again slowly for 30 seconds.

When mixing the paddle must be fully submerged into the liquid.

To minimize air bubbles, avoid over mixing.

Mixing is preferably done with a power mixer on low speed, from 300 to 400 RPM, with a WK 70 mixer paddle.

SUBSTRATE PREPARATION:

All dust, loose and friable material must be fully removed from all surfaces before applying the product, preferably using a brush and/or industrial vacuum cleaner.

The substrate must be clean and dry and free of dirt, oil, grease and any other impurities or contaminants.

The substrate must be sound and sufficiently compression resistant (at least 25 N/mm²), with a minimum adhesive strength of 1,5 N/mm².

If the epoxy surface is more than 48 hours old, always perform a preliminary adhesion test.

PROPERTIES:

Near Solvent free

Low viscosity

High bonding strength

Alkylphenol free

Easy application

Electrical conductivity >100 GΩ

Viscosity 1 (mPa.s) 350 - 500

Density 2 (g/cm³) 1,10

Shore Hardness 3 >D80

Adhesive strength 4 (N/mm²) > 1.5
(Concrete fracture)

1 = Brookfield, LV3, 30 RPM, @ 23°C

2 = ISO 2811-1, + 23°C/50% R.H

3 = DIN 53505, 14 days / + 23°C / 50%
R.H

4 = EN 4624, 14 days / + 23 °C / 50%
R.H

PACKAGING:

Component A: 15,74 kg resin

Component B: 4,26 kg hardener

Set: 20 kg (10 kg available)

FORM:

Component A: liquid, clear

Component B: Liquid, clear

APPLICATIONS:

- Application of a thick layer
- Binder for stone carpets
- Used for tables

Application conditions:

Substrate temperature: Minimum 15°C, maximum +30 °C

Ambient temperature: Minimum 20°C, maximum +30 °C

Relative air humidity: Maximum 60% R.H.

Dew point: Beware of condensation!

The temperature of the substrate and non-hardened material must be at least 3°C higher than the dew point to reduce the risk of condensation, efflorescence or stickiness (carbamate formation) on the floor finish.

Remark: Low temperatures and high air humidity increase the risk of efflorescence or carbamate formation.

REMARKS:

Do not apply the Europox TQ on substrates with rising moisture.

After application Europox TQ must be protected from damp, condensation and water for at least 24 hours.

Uneven or dirt covered substrates should not be treated with a transparent casting layer. Both substrate and adjacent areas should always be thoroughly prepared and cleaned prior to application.

Mixed materials must be processed immediately as flow and defoaming will be reduced when pot-life expires.

The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.

Under certain conditions, underfloor heating combined with high point loading, may lead to imprints in the resin.

If heating is required do not use gas, oil, paraffin or other fossil fuel heaters. These produce large quantities of both CO₂ and water vapour which may adversely affect the finish.

For heating, only use electric powered warm air blower systems.

Do not use any underfloor heating during application or for the first 48 hours, after this period you may increase the temperature gradually.

LEGAL NOTICE:

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HEALTH AND SAFETY:

For information and advice on the safe handling, storage and disposal of chemical products, the user should consult the most recent product safety data sheet consult, regarding the physical, ecological, toxicological and other safety-related data.

VALUE BASE:

All technical data stated in this technical data sheet is based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

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