

Europox TQ

Packaging:

2 components in 10 and 20 kg sets

Component A: 15,74 kg

Component B: 4,26 kg

Total Set: 20 kg

Component A: 7,87 kg

Component B: 2,13 kg

Total Set: 10 kg

Properties:

- Approx. 100% solid, solvent-free
- Low viscosity
- High adhesive strength
- Easily processable
- Very good pore filling capacity
- Density 1,00 g/cm³
- Electrical conduction > 100 GΩ
- Viscosity 1000-1400 mPa.s
- Shore hardness > D80
- Adhesive strength > 1,5 N/mm²
(concrete fracture)

Description:

Europox TQ is a multifunctional two component epoxy resin that can be used as a transparent casting resin and as a binder for decorative gravel floors and marble floors.

The product is characterized by its very high transparency, high glossy surface and excellent UV resistance with a high gloss and spotless finish.

Mixing:

Mixing ratio: Component A: Component B = 78,7 : 21,3

Add part B to part A and mix continuously for two minutes until a uniform mixture has been achieved. To ensure thorough mixing pour the materials into a clean second container and mix again for one minute to achieve an even consistency.

Mixing is preferably done with a power mixer on low speed, 300 to 400 RPM, with a WK70 mixer paddle.

Consumption:

Floor system	Product	Consumption
Casting Layer	Europox TQ	~ 0,150 g/m ² Layer 1 ~ 1 – 5 kg/m ² Layer 2

Floor system	Product	Consumption
Binder for quartz	Europox TQ	~ 8% on weight quartz

Substrate:

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.

Weak concrete and loose cementitious levelling must be removed, and surface damage such as blowholes and voids must be repaired with Sealer E and then primed again. **DO NOT USE POLYESTERPUTTY** as no adhesion will be obtained.

The concrete, screed and even wood substrates must be primed ±150 gram/m² with the TQ. Uneven substrates must be levelled in order to achieve an even substrate.

Before applying the product, all dust and loose parts must be fully removed, preferably using a brush and/or industrial vacuum cleaner.

Concrete substrates must be mechanically prepared using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.

If the epoxy layer is more than 48 hours old, always do a preliminary adhesion test

Application conditions:

Surface temperature:	Minimum -5°C, maximum +35 °C
Ambient temperature:	Minimum -5°C, maximum +35 °C
Surface moisture content: To be tested with a carbide meter.	< 4 % moisture
Relative air humidity:	Maximum 70% 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 dewpoint 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.

Application:

Processing time after mixing time + pre-reaction at 20°C	25 minutes
Touch-dry @ 20°C	24 hours
Foot Traffic @ 20°C	48 hours
Fully cured @ 20°C	7 days

Check the moisture content of the substrate, the R.H. and dew point before applying the product.

Casting layer application:

First prime the substrate to close all the pores. After curing and carefully following the mixing process, apply the material evenly over the substrate with a trowel or squeegee. Then after about 15 minutes you can start with the metal spike roller. The material is characterized for its very long open time, so there is enough time to vent the material and improve its surface. The use of the spiked roller is mainly intended to tighten the casting layer.

Creating a floor system with a perfectly smooth and shiny surface is quite a challenge:

- Take the mixing regulations extremely seriously
- Mix with a Collomix WK 70
- Make sure you work over a closed substrate, pore free.
- Don't start using the spiked roller right away make sure to wait 15 minutes.
- Even though the floor already seems to be tight, you still need to use the spiked roller and make sure you get everything.
- Always use a metal spiked roller.
- Make sure the product is at room temperature before processing.

Additional information:

Shelf life / storage up to 12 months after the production date in the original, sealed, unopened and undamaged packaging, stored dry between + 5 °C and 30°C.

Discoloration and color deviation can occur, this will not affect the functionality or performance.

Remarks :

- Please check if you have the right A + B component
 - Mixing is very important. Please mix at least 2 minutes otherwise no chemical reaction will take place.
 - When applying the material please wear protective clothing and gloves.
- The most important thing about priming is the filling of all the (micro) pores to avoid air bubbles and pinholes in the wearing course. Do not apply too much primer, if you apply the primer too heavily you can trap air inside that the next day will result in a primed floor with air bubbles and holes. Do not use the Europox TQ on damp surfaces. After applying Eurostep Europox TQ, the surface must be protected against moisture and condensation for at least 24 hours. Uneven or contaminated floors cannot be treated with a transparent casting layer such as the Europox TQ. Both the substrate and the adjacent rooms must always be thoroughly prepared and cleaned before application. Process mixed material directly because when the end of the processing time is reached, the material becomes very tough and not processable. An incorrect assessment and treatment of cracks can lead to a reduction in service life and recurrent cracking. Underfloor heating or high ambient temperature, combined with a high point load, can lead to printing in the resin under certain circumstances. If heating is required, do not use gas, oil, paraffin, or other fossil fuel burners, these cause large amounts of both CO₂ and H₂O water vapor, which can adversely affect the finish. For heating use only electrically powered hot air fan systems.

Health and safety information:

For information and advice on the safe handling, storage and disposal of chemical products, the user should consult the latest product safety data sheet, concerning physical, environmental, toxicological, and other safety-related data.

Legal Notices:

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