Technical sheet

QC EP-Binder 030

QC EP-BINDER 030 is a 2 component epoxy binder for indoor applications in open or closed structure

Application area

Only if a primer layer has been applied:

- Sanded tiles
- Screed
- (Polished) concrete
- Existing poured floor
- Existing broadcast floor
- Concrete with floor paint

Contact Sidec for application on other types of substrates

Properties

2-component epoxy binder that requires as much as 12.5% less resin per m² compared to traditional binders. This without compromising the strength of the floor. Suitable for open structure or closed structure stone or marble carpet in indoor applications.

Technical data

Mixing ratio	100 A / 53 B
Pot-life A + B	± 45 min.
Temperature range	15°C - 25°C
Optimal conditions	18°C - 22°C, 40% - 60% RH
Colour	Semi-transparant
Viscosity A + B	± 580 mPa.s (Anton Paar MCR 92 Shear Rate 100 1/s, 20°C)
Solid content	100 vol.% (= 100 gew.%)
Density A + B	1,07 g/ml or kg/dm^3
Adhesion strength on concrete	Greater than the tensile strength of concrete (greater than 3 MPa)
Consumption	7 % mix A+B

* At a temperature of 22°C, 55% RH

Drying time vs. floor temperature

Pay extra attention to the dew point at lower floor temperatures. as drying times will be significantly longer.

Floor temperature (°C) at 55% RH	Drying time
15	26-30h
20	18-20h
25	10-12h

Preparation and substrate check

Before applying QC EP-BINDER 030, the substrate must be inspected. The substrate must be primed, sufficiently compressive and tensile and must not contain any defects.

The substrate must always be free of dust and moisture. Check that the floor is sufficiently dry, waterproof and does not sag or move. Use a moisture meter to measure the moisture content of the floor. The moisture content in the substrate must be ≤ 5% moisture.

Conditions during application

The recommended floor and ambient temperatures are between 15°C and 25°C with an ideal installation temperature of 18°C to 22°C. Measure the temperature of the floor and find the coldest point. Then measure the dew point at this point. The floor temperature should be at least 3°C above the dew point. The ideal humidity is 40% to 60%.

Processing

- Check whether there is sufficient A and B component by weighing both components in the correct ratio.
- Shake the B component in the jerry cans and barrels before mixing. Then add the A and B components together in the correct ratio.
- For small sets, there is sufficient space to pour the B component into the A component.
- For large packages, weigh the A and B components in separate buckets and then add them together. Allow the mixing bucket to drain in between.
- Always mix for at least 2 minutes with a drill with a mixing spindle. It is recommended to pour this mixture into a second bucket and mix well again.
- Now you can add the coloured gravel or sand and mix with a suitable mixing machine (for small quantities a hand blender can be used, for larger quantities a slow-running drill with double mixing arms or a forced mixer can be used).

Points of attention

- Press/compact well
- Lower temperatures extend the curing time. Higher temperatures shorten the curing time.
- Place the granulates in a mixing tub or forced mixer, add the mixed epoxy as quickly as possible and mix again for 2 minutes.
- Mixed product reacts quickly in the bucket and can become very hot and cause harmful fumes. It is therefore recommended to put the bucket outside if it is not empty after 10 minutes.
- Regularly clean the mixing bucket and tub in warm weather or use new ones. Remove excess resin from the tub if necessary
- Always mix for the same amount of time (chronometer), this will prevent any stains due to more or less erosion on the granules.

Packaging

3,5kg Sets	1 x 2,29 kg A + 1 x 1,21 kg B
7kg sets	1 x 4,58 kg A + 1 x 2,42 kg B
61,25 kg Sets	2 x 20 kg A + 1 x 21,25 kg B

Cleaning

Clean any used tools with Cleaner EP or acetone. Cured product residues must be removed mechanically.

Storage and preservation

Shelf life: 12 months in closed and original packaging when stored in a cool and dry place (15-25°C).

Safety measures

Read the safety sheets carefully before using QC EP-BINDER 030. Always wear personal protective equipment according to the applicable local guidelines and legislation. Gloves and safety glasses are mandatory.

Technical support

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The most recent version of this technical data sheet is available on our website.