

CK 740

Epoxy Resin 2C

Universal epoxy resin for priming, for sealing cracks by pouring and by pressure injection and for producing mortar



CHARACTERISTICS

- ▶ for producing powerful bonds
- ▶ can also be used on damp substrates
- ▶ good penetration
- ▶ solvent-free and very low-emission
- ▶ good resistance to chemical attack

SCOPE OF USE

CK 740 Epoxy Resin 2C is a flowable, transparent epoxy resin that provides a powerful bond when sealing cracks and joints.

Due to its good penetration capacity, CK 740 Epoxy Resin 2C is ideally suited as a primer and bonding course for absorbent and non-absorbent substrates. The epoxy resin can also be used as a binding agent. The resulting high-strength mortar is able to fill large joints and cracks and to anchor bolts in screed and concrete.

When prepared as a levelling compound, the resulting coating is of high strength and resistant to water, silage acids and chemicals.

CK 740 can also be used for producing pourable mortars and epoxy resin screeds. It has proven its worth on difficult substrates and as a barrier against the capillary rise of moisture or higher amounts of residual moisture in concrete floors and cement screeds (up to approx. 6 CM %).

SUBSTRATE PREPARATION

The substrate must be solid, load-bearing and free of loose particles and dust. The maximum permissible residual moisture is 6 CM %. If necessary, cracks and joints must be enlarged and carefully cleaned. In some cases, pressure injection may be necessary.

APPLICATION

CK 740 Epoxy Resin 2C is supplied in a combi-pack



and must be mixed before use. The hardener component is filled into the tin containing the resin component. The two components are mixed using an electric drill with attached stirrer at approx. 400 rpm until a homogeneous, streak-free compound has been produced. (The content of a 1 kg tin can also be stirred with a wooden spatula.)

Use as a mortar:

Blend the freshly prepared epoxy resin with an appropriate amount of washed and dried silica sand. Choose a grading curve that is suitable for the crack to be filled or the surface defect to be repaired. The maximum grain size of the silica sand mixture should not exceed 1/3 of the minimum layer thickness resp. crack width. Thanks to the variable mixing ratio of approx. 3 : 1 up to 10 : 1 (sand : resin), both flowable and trowellable mortars can be produced. Admix a sufficient amount of silica sand until the desired consistency is achieved, then work the mortar into the joint.

Sprinkle the freshly repaired area with silica sand (e.g. 0.3–0.8 mm) to ensure better adhesion of the subsequent coatings.

Use as a primer:

Clean the areas to be primed, then brush CK 740 Epoxy Resin 2C with a paint brush onto the surface. Afterwards, sprinkle the surface with silica sand (0.3–0.8 mm).

Injection grouting of cracks:

Inject the epoxy resin according to the current version of the ZTV-SIB/ZTV-RISS.

Epoxy resin screed:

Epoxy resin screeds can be produced in any desired thickness by adding silica sand (grain size as specified below) to the ready-mixed CK 740:

25 % of 0.1–0.5 mm 25 % of 0.4–0.7 mm
25 % of 0.7–1.2 mm 25 % of 2.0–4.0 mm.

The mixing ratio is 10 : 1 parts by weight.

Barrier against residual moisture:

Always apply two coats of approx. 250 g/m² each. The second coat is applied crosswise after 48 hrs at the latest and is afterwards sprinkled with silica sand (0.3–0.8 mm).

Cleaning:

Fresh material can be removed within the pot life, e.g. with turpentine substitute (white spirit). Hardened product residues can only be removed mechanically.

PLEASE NOTE

Use CK 740 only in dry conditions at air and substrate temperatures of +10 °C to +30 °C and below 80 % relative air humidity. The temperature of non-absorbent substrates must be at least 3 °C above the dew point.

- Clean the tools with solvent immediately after use.
- Pot life and curing time are temperature-dependant. The higher the temperature, the shorter these times and vice versa.

Please refer to the following information sheets for further information:

- Safety Data Sheet
- Technical Data Sheets of other Ceresit products
- Technical information issued by the Builders Trade Association on GISCODE RE1.

Apart from the information given here it is also important to observe the relevant guidelines and regulations of various organisations and trade associations as well as the respective standards of the German Standards Institute (DIN). The aforementioned characteristics are based on practical experience and applied testing. Warranted properties and possible uses which go beyond those warranted in this information sheet require our written confirmation. All data given was obtained at an ambient and material temperature of +23 °C and 50 % relative air humidity unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.

The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted on the basis of the contents of this data sheet or any verbal advice given, unless there is a case of wilful misconduct or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product.

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TECHNICAL DATA

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| Material base: | epoxy resin |
| Density: | approx. 1.1 kg/l |
| Mixing ratio: | A : B = 5 : 2 parts by weight |
| Compressive strength (DIN 1164): | after 24 hrs: approx. 40 N/mm ² * after 28 days: approx. 85 N/mm ² * |
| Bending tensile strength (DIN 1164): | after 24 hrs: approx. 20 N/mm ² * after 28 days: approx. 30 N/mm ² * |
| Application temperature: | +10 °C to +30 °C |
| Working time: | approx. 30 min |
| Load-bearing strength: | after 24 hrs |
| Required amount: | as a priming coat: approx. 150–300 g/m ² as a binder for mortar: approx. 100–300 g/m ² and mm layer thickness |
| Shelf life: | 24 months in a cool and dry place. |

* with mortar prisms 7:1 (sand 0.1–2 mm)

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