

CD 31

Epoxy corrosion inhibitor

Coloured reaction resin for corrosion protection, especially on reinforcing steels

CHARACTERISTICS

- ▶ solvent-free
- ▶ chemical-resistant
- ▶ thixotropic formulation
- ▶ low on pollutants

SCOPE OF USE

Used as corrosion protection on reinforcing steels. CD 31 is part of the tested concrete repair system. As adhesive bridge for powerful bonding of concrete members.

Suitable for use on walls and floors.

For producing chemical-resistant wall or plinth coatings of high mechanical strength.

Excellent adhesion to concrete and steel.

Outdoors not suitable as surface protection if exposed to UV radiation.

SUBSTRATE PREPARATION

CD 31 adheres to all solid, load-bearing, dust-free and dry concrete and steel members free of substances which may impair adhesion. Any soiling must be mechanically removed. Prepare the concrete by abrasive blasting, chiselling or milling.

Reinforcing steel and steel components must be de-rusted with a sandblasting device down to bright metal.

Purity grade: at least SA 2 1/2. Afterwards, clean the surfaces to be treated with oil-free compressed air.

Concrete (equalizing moisture $\leq 4\%$) should be primed with CF 41.

APPLICATION

CD 31 is supplied in two components in a single container. Add the hardener (component B) to the base solution (component A) at a ratio of 1 : 4 (B : A) parts by weight. Mix with a drill and paddle attachment at



approx. 400 rpm until the mixture is completely free of lumps. Ensure a uniform colour without streaks. Observe the pot life which strongly depends on temperature. Apply CD 31 onto the still wet or tacky primer, using a roller or a trowel. Paint reinforcing steel and steel members within 3 hours after pre-treating the surface with CD 31. Apply the final coat within the next 3 to 6 hours. Sprinkle fire-dried quartz sand onto the corrosion protection coat while still wet. If work is interrupted for a longer period, dressing with sand is always necessary between the first and the final coat. Ensure a uniform layer thickness of at least 0.25 mm. Hardened material can only be removed mechanically.

PLEASE NOTE

Use CD 31 only in dry conditions at temperatures of $+10\text{ }^{\circ}\text{C}$ to $+30\text{ }^{\circ}\text{C}$ and below 80 % relative air humidity.

During application ensure that the substrate temperature is at least 3 °C above dew point. CD 31 contains isophorondiamine and epoxy resins. The hardener (component B) is caustic. The base solution (component A) is irritating to eyes and skin and may cause sensitization. Wear protective gloves and safety glasses (face protection) during application. If contact occurs rinse thoroughly with water. If you feel unwell or in case of contact with the eye, seek medical advice immediately.

For further details refer to information sheets M 004, M 017, M 023 and M 042 issued by the BG-Chemie (Employers' Liability Insurance Association of the Chemical Industry).

Please refer in particular to DIN 55 928 and the technical information sheets supplied with the Ceredur concrete repair system.

Mixing and application is facilitated if the product is stored in a warm place in winter and in a cool place at high summer temperatures.

Should you need support or advice, please consult our advisory service for architects and craftsmen on the hotline numbers

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TECHNICAL DATA

Base:	epoxy resin of stiff consistency
Density:	1.4 g/cm ³
Viscosity:	12000 mPas
Mixing ratio:	4 parts by weight of component A to 1 part by weight of component B
Application time:	approx. 90 minutes at +10 °C approx. 50 minutes at +20 °C approx. 20 minutes at +30 °C
Application temperature:	+10 °C to +30 °C
Temperature resistance:	-30 °C to + 80 °C (moist) -30 °C to +120 °C (dry)
Amount required:	approx. 1.4 kg/l cavity volume resp. 1.4 kg/m ² per mm layer thickness
Drying time:	3 to 6 hours
Walk-on time:	24 hours
Load-bearing strength:	after 3 days
Adhesive tension strength:	approx. 3.0 N/mm ² on concrete approx. 8.0 N/mm ² on steel
Amount required:	approx. 0.3 to 0.5 kg/m ² when used as coating or adhesive bridge
Colour:	cement grey
Storage:	shelf life approx. 12 months in an airtight container in a frost- free, dry and cool place
Packaging:	1 kg 2-component tin container

CERESIT
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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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