CONSTRUCTION

CARBO SIL20

TWO-COMPONENT REPAIR RESIN

DESCRIPTION

CARBO SIL20 is a two-component repair resin
Component A is a special water glass.
Component B is a modified polyisocyanate.

The curing of component A during the reaction results in a silicate; simultaneously a solid polyisocyanurate/polyurea is formed from the component B.

APPLICATION AND USE

CARBO SIL20 is used for closing plaster cracks non-positively.

ADVANTAGES

- Tough - elastic product
- High chemical resistance

TECHNICAL DATA

MATERIAL DATA

Parameter	Unit	Component A	Component B	Standard
Density at 25 °C	kg/m³	1480 ± 20	1120 ± 20	DIN 12791-1
Colour	-	yellowish	black-brown	-
Flash point	°C	-	> 200	DIN 53213
Viscosity at 25 °C	mPa*s	270 ± 50	160 ± 30	ISO 3219

REACTION DATA

Initial temperature	Unit	Value
Mixing ratio	parts by volume	1 : 1
Pot life	up to 8 minutes after mixing the components	
Can be applied as filler within	minutes	10 – 14
Hardening after	minutes	15 – 22
Load bearing after	hours	24

APPLICATION METHOD

Add component A to the bottle containing component B. After closing the bottle, shake component B vigorously for approx. 15 seconds. **Do not stir!**

For the repair of cracks, fill homogeneously mixed resin from the bottle into the prepared crack and smooth over.

In order to improve the adhesive combustion of the levelling material or adhesives to be applied afterwards, spread sufficient fire-dried silica with grain size 0.5 - 0.7 mm on the surface of the fresh material.

Do not scratch out the can after removing the material.

1. Requirements for the subfloor

The subfloor and the conditions regarding the room temperature must be in accordance with the requirements of DIN 18365. Subfloors need to be even, permanently dry, hard, free of impurities and substances inhibiting adhesion. If necessary, expand plaster cracks, e.g. with a separating plate, and clean well. Cut joints in regular distances vertically to the crack with a depth half of the plaster thickness and insert steel nails or plaster repair clamps.

2. Consumption

The consumption depends on the scope of the repair work.

3. Final product

The two solids form an interpenetrating network, a tough-elastic, non-foamed silicate resin. Once the components have been mixed adequately, the resulting viscous emulsion will not take up any more water.

Fully cured CARBO SIL20 is resistant to acids, alkalis, salt solutions and many organic solvents (contact Minova in case of doubts).

SAFETY INSTRUCTIONS AND LIMITATIONS

Observe the general safety regulations when handling chemicals, see MSDS.

Avoid freezing.

PACKAGING AND TRANSPORTATION

All forms of packing are approved to the danger goods regulation road, railway, domestic shipping. The components can be delivered in 0.75 l units. Other packaging units are available on request. Details are shown in the offer.

STORAGE AND SHELF LIFE

For PE-bottles: Six months after date of filling at dry storage between 10 °C and 30 °C.

For IBCs: Twelve months after date of filling at dry storage between 10 °C and 30 °C.

When this time is exceeded, we recommend having the material checked by Minova for compliance with specification. The local legislation on storage has to be observed (see safety data sheet).

DISPOSAL

Follow local regulations.

DISCLAIMER

The data in this sheet conform to our best knowledge and experience at the date of printing, which is indicated below. The state of knowledge and experience are evolving constantly. Please

pay attention therefore, that you always refer to the current version of this data sheet.

The description of the product application in this sheet cannot take the special conditions and circumstances into account emerging from the individual case. Please check our product therefore in any case prior to use for its suitability in the actual application. Application, use and processing of our product is outside of our control capabilities. That is why they as well as the processing result achieved based on our information are exclusively subject to your own responsibility.

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ADDITIONAL DOCUMENTATION

- MSDS of CARBO SIL20 component A
- MSDS of CARBO SIL20 component B

LIST OF REPRESENTATIVES

- AUSTRIA: Minova MAI GmbH
- CZECH REPUBLIC: Minova Bohemia s.r.o.
- FRANCE / BELGIUM: Sales office Minova France / Belgium
- GERMANY: Minova CarboTech GmbH
- ITALY: Minova CarboTech GmbH Italy branch
- KAZAKHSTAN: Minova Kazakhstan LLP
- POLAND: Minova Ekochem S.A.; Minova Arnall Sp. z o.o.; Minova Ksante Sp. z o.o.
- RUSSIA: ZAO "Carbo-ZAKK"
- SLOVAKIA: Minova Bohemia s. r. o., organizačná zložka
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CUSTOMER SERVICE

For additional support options available at your area, contact our local offices.

www.minovaglobal.com