

CONSTRUCTION

CarboCryl Plus W

AQUEOUS LATEX DISPERSION FOR USE WITH CARBOCRYL HW OR WW

DESCRIPTION

CarboCryl Plus W is a dispersion based on polyacrylate, which can be added to CarboCryl Hw or Ww in place of water for the preparation of the B component. CarboCryl Plus W is an aqueous latex dispersion.

Attention: The liquid CarboCryl Plus W component is damaged irreversibly by frost. The cured gel remains flexible.

APPLICATION AND USE

The application of CarboCryl Plus W increases the flexibility as well as the adhesion of acrylate gels to mineral surfaces. The solids content also is increased, thus reducing the shrinkage of the gel in dry environment. This is especially important in places with high ventilation as e. g.

- Repair of dilatation joints with CarboCryl Ww Plus W
- Crack repair with CarboCryl Hw Plus W

Applicable at temperatures from 5 °C to 40 °C

ADVANTAGES

The addition of CarboCryl Plus W results in acrylate gels containing reduced water content therefore higher solid content. So, adhesion, elasticity and shrinking can be improved by modification with CarboCryl Plus W.

TECHNICAL DATA

The data below are laboratory data. They may vary in practice by thermal exchange between resin and concrete, moisture, and other factors.

MATERIAL DATA

Parameter	Unit	Details	Standard
Density at 20 °C	kg/m ³	1007 ± 10	DIN 51757
Colour	-	white	-
Consistency	-	liquid	-
Viscosity at 20 °C	mPa*s	10 ± 5	EN ISO 3219

MECHANICAL DATA

CarboCryl Plus W	+	CarboCryl Hw	CarboCryl Ww
Consistence of the rubber	-	hard	elastic
Colour	-	white	white
E-modulus ¹	MPa	0,45	0,49
Tensile strength ¹	MPa	0,07	0,16
Elongation at break ¹	%	260	710
Swelling rate ²	%	20	40

¹ EN ISO 527-2

² EN ISO 62

APPLICATION METHOD

CarboCryl Plus W is used for the preparation of the B component in CarboCryl Hw or Ww in place of water. The flask with the required amount of B2 component (hardener) is filled with water and shaken vigorously, until the salt is dissolved completely. Then the salt solution is mixed into the B1 can (CarboCryl Plus W) homogenously.

The freshly prepared solutions are serviceable approximately 8 hours. No metal stirrers should be used for mixing and homogenisation of the product, but only plastic or wood paddles.

The prepared B component is processed in the usual manner with a self-priming two-component pump in stainless steel in a 1 : 1 mixing ratio with the freshly prepared A component of CarboCryl Hw or Ww (cf. Technical Data Sheets of CarboCryl Hw resp. Wv).

The gel times with the various quantities of B2 can be taken from the tables (cf. Technical Data Sheets of CarboCryl Hw resp. Wv).

Within the processing time all equipment can be cleaned with water. Partially and completely cured material can only be removed mechanically.

CarboCryl Plus W increases the tensile strength, the flexibility as well as the adhesion of the gel to mineral substrates and decreases the shrinking/swelling of the cured gels.

SAFETY INSTRUCTIONS AND LIMITATIONS

Observe the usual precautionary measures for handling chemicals, see MSDS CarboCryl Plus W.

The use of CarboCryl Plus W is not recommended for soil injection (curtain grouting) due to the significantly higher mix viscosity.

In case of repeated injections attention must be paid that before the following injection a curing time of 10 min is kept. Otherwise, the gel being formed may be destroyed mechanically.

In case that on a site both CarboCryl and polyurethane have to be injected, first the higher viscous polyurethane shall be used, then the lower viscous CarboCryl gel.

PACKAGING AND TRANSPORTATION

All forms of packing are approved to the danger goods regulation road, railway, domestic shipping.

The component is delivered in following units.

20 l/200 l/1000 l

Other packing units available on request.

STORAGE AND SHELF LIFE

At least six months after delivery or twelve months after production, for dry storage between 10 °C

and 30 °C. Keep from frost or direct exposition to sunlight.

CarboCryl Plus W is damaged irreversibly by frost! The local legislation on storage has to be taken into consideration.

DISPOSAL

Follow local regulations.

DISCLAIMER

© 2025 Minova. All rights reserved. All information contained in this document is provided for informational purposes only and is subject to change without notice. Since Minova cannot anticipate or control the conditions under which this information and its products may be used, each user should review the information in the specific context of the intended application. To the maximum extent permitted by law, Minova specifically disclaims all warranties expressed or implied in law, including accuracy, non infringement, and implied warranties of merchantability or fitness for a particular purpose. Minova specifically disclaims, and will not be responsible for, any liability or damages resulting from the use or reliance upon the information in this document. The word Minova and the associated image are registered trademarks.

MCT-340103/CarboCryl Plus W_E2, May 2025

ADDITIONAL DOCUMENTATION

- MSDS of CarboCryl Plus W

CUSTOMER SERVICE

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

www.minovaglobal.com/emea-cis