

Centricrete HCS

Cement Suspension for Concrete Strengthening

Product Properties

- Low-viscose cement based suspension
- Optimized shrinkage
- Long application time
- Volume stability
- Restores alkalinity
- Chloride free

Areas of Application

- Rigid filling of cracks, joints and voids in building construction and civil engineering under dry, damp and water-bearing conditions

Application

Preparation

Before injection, the structure, the leaking areas, respectively, have to be inspected according to technical standards and regulations, and, injection concept is to be prepared.

Mixing

Centricrete HCS is mixed with water according to the mixing ratio using fast rotating stirrers. First water is added in a clean container and during mixing the powder is added. A high-speed dissolver is ideal for this task. Alternatively a four-armed cage mixer driven by a drilling machine can be used (> 800 rpm).

For an ideal mineral suspension a mixing time of at least 3 minutes is mandatory. Additives inside the powder component take effect after a few minutes. A second mixing after a break of 2 minutes improves viscosity as well as injectivity. Second mixing time: 1 minute.

The viscosity can be checked on site via Marsh funnel.

The standard pack (20 kg binding agent) allows the production of approx. 27 kg \approx 15 l suspension for injection.

The application time depends on the amount of mixed material and the surrounding temperature conditions.

Injection

The injection should be carried out with the injection-pump MC-I 910 (1-component pump).

For the injection MC-Schlagpacker are recommended.

At temperatures under + 5 °C work has to be stopped.

Cleaning

Within the application time all equipment may be cleaned with water. Partially or completely cured material can only be removed mechanically.

Technical Data for Centricrete HCS

Characteristic	Unit	Value *	Comments
Mixing ratio	p. b. w.	20 : 7	compent A : water
Density	kg/dm ³	approx. 9	EN 18555 T1
Time of efflux (flowability)	seconds	approx. 80 ± 20	DIN EN 14117
Compressive strength	MPa (1 d) (7 d) (28 d)	approx. 35 approx. 44 approx. 43	DIN EN 196 T1
Flexural strength	MPa (1 d) (7 d) (28 d)	approx. 5.0 approx. 3.8 approx. 6.6	DIN EN 196 T1
Change in volume	%	0,1	DIN 4227 T5
Application time	minutes	approx. 60	subject to permanent stirring or pumping
Min. application temperature	°C	+ 5	air, substrate and material temperature

* All technical values relate to 20 °C and 50 % relative humidity.

Product Characteristics for Centricrete HCS

Colour	Grey
Cleaning agent	Water
Delivery	20 kg pack back
Storage	Can be stored in original sealed packages at temperatures between + 5 °C and + 25 °C in dry conditions for at least 1 year. The same requirements are valid for transport.
Disposal	Packs must be emptied completely.

Safety Advice

Please take notice of the safety information and advice given on the packaging labels and safety information sheets. GISCODE: ZP1

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition 03/15. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.