

# Centricrete UF

Two-component, rigid-filling cement slurry for the injection of cracks, voids and cavities in concrete and masonry



## PRODUCT PROPERTIES

- Low-viscosity fine-cement slurry (suspension) of good injectability
- Long working time
- Shrink- and expansion-free curing
- Realkalising effect
- Highly sulphate resistant according to the SVA process
- Environmental Product Declaration EPD

## AREAS OF APPLICATION

- Rigid filling and reinforcement of cracks, construction joints, voids and cavities in concrete and masonry under dry, moist and water-bearing conditions

## APPLICATION ADVICE

**Preparatory measures:** Prior to injection, the structure must be examined according to the state of the art and the rules of technology and an injection concept must be planned. A trial injection is recommended.

**Mixing the components:** A colloidal mixer should be used to mix the components. The mixing time of 10 minutes must be observed to produce an optimal cement suspension.

To prepare the suspension, 13,5 - 14,0 l of water is added to a clean container and Centricrete UF Additiv is stirred in with a stirring motion. Then the binding agent component Centricrete UF is added while stirring slowly. This is followed by intensive mixing with rapid stirring over the entire mixing time.

After mixing, check the flow time with the Marsh funnel (4.76 mm). It should reach a value of 50 - 55 sec.

The standard bag (25,03 kg binder) allows the production of approx. 41 kg  $\approx$  24 l injection slurry.

Always mix complete containers.

**Injection:** Injection is carried out with injection pump MC-I 910 (1-component pump) using the low-pressure method.

MC Hammer Packer LP 12 or MC Surface Packer LP packers are recommended for injection.

Application work should cease once component/substrate temperatures fall below 5 °C.

Ensure compliance with the information given in the specifications and the Safety Data Sheets.

**Equipment cleaning:** Within the working time, all tools can be cleaned with water. Material that has reacted or set will need to be removed mechanically.

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	mass fractions	25.03 : 2.35 : 13.5 - 14	comp. A : comp. B : water
Density	kg/dm <sup>3</sup>	1.65 - 1.75	EN ISO 3675
Flexural strength	N/mm <sup>2</sup>		EN 196-1
24 h		approx. 2	
48 h		approx. 4	
7 d		approx. 7	
28 d		approx. 7.2	
Working time	minutes	approx. 60	subject to steady stirring and pumping motions
Application conditions	°C	> 5	component and subsoil temperature
Compressive strength	N/mm <sup>2</sup>		EN 196-1
48 h			
24 h		approx. 26	
48 h		approx. 28	
7 d		approx. 34	
28 d		approx. 42	
E-modulus	N/mm <sup>2</sup>	approx. 20,400	DAfStb Booklet 422 Point 3.5
Grain size distribution	µm	< 10	laser granulometry
Grinding/milling fineness	cm <sup>2</sup> /g	approx. 16,000	EN 196-6
Three-dimensional change	%	approx. 2	EN 445
Slump flow time (flowability)	seconds		EN 14117
		approx. 50	±20

All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.

Colour	grey
Equipment cleaning agent	water
Delivery form	Centricrete UF 25.03 kg bucket Centricrete UF Additiv 2.35 kg canister
Storage	Can be stored in original sealed packages at temperatures between 5°C and 30°C in dry conditions for at least 12 months.
Packaging disposal	Make sure single-use containers are completely empty.

### Safety instructions

Please note the safety information and advice given on the packaging labels and safety data sheets. GISCODE : ZP1

**Note:** The information contained in this data sheet is based on our experience and is correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual structure, to the specific application and to non-standard local conditions. Application-specific conditions must be checked in advance by the planning engineer/specifier and, where different from the standard conditions indicated, will require individual approval. Technical advice provided by MC's specialist consultants does not replace the need for a planning review by the client or its agents in respect of the history of the building or structure. Subject to this prerequisite, we are liable for the correctness of this information within the framework of our terms and conditions of sale and delivery. Recommendations of our employees deviating from the information given in our data sheets are only binding for us if they are confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be observed. The information given in this technical data sheet is valid for the product supplied by the country company listed in the footer. It should be noted that data in other countries may differ. The product data sheets valid for the relevant foreign country must be observed. The latest technical data sheet shall apply to the exclusion of previous, duly superseded versions; the date of issue in the footer must be observed. The latest version is available from us on request or may be downloaded from our website. [2400022577]