

Centricrete UF-IN

One-component, rigid-filling cement slurry for the injection of cracks, voids and cavities in concrete, masonry, soil and rock.



PRODUCT PROPERTIES

- Low-viscosity fine-cement slurry (suspension) of good injectability
- Long working time
- Shrink- and expansion-free curing
- Realkalising effect
- Engineered for secure use in marine and below-ground conditions
- Complies with environmental safety standards: no harmful substances included

AREAS OF APPLICATION

- Rigid filling and reinforcement of cracks, construction joints, voids and cavities in concrete, masonry, soil and rock under dry, moist and water-bearing conditions
- Pre-Injection of larger cavities in concrete and masonry prior to a partial or full surface sealing injection/ water proofing measures.

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, add 12.5 l of clean water (W/P ratio 0.5) to a clean mixing container. Gradually introduce Centricrete UF IN while stirring continuously. Mix thoroughly using high-speed agitation for the entire mixing duration to ensure a homogeneous suspension.

After mixing, check the flow time with the Marsh funnel at (27±2°C). It should reach a value of 30 - 40 sec.

Always mix complete full bag.

Injection: Injection is carried out with injection pump MC-I 910 (1-component pump) or equivalent pump using the low-pressure method. MC Hammer Packer LP 18 or MC Surfacepacker LP packers are recommended for injections. Each packer has to be injected twice (main injection + post-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.

Injection is carried out with one component injection pump using the low-pressure method. 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 working time, all tools can be cleaned with water. Material that has re-acted or set will need to be removed mechanically.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	Ratio	1 : 0.5	comp. A : comp. B water
Density	kg/dm ³	0.78	EN ISO 3675
Specific gravity	g/cc	3.1	
Blaine surface	cm ² /g	>9000	
Working time			
Typical Particle size distribution			
d ₁₀		<2	
d ₅₀		<4	
d ₉₅		<12	
Working time	minutes	approx. 180	subject to steady stirring and pumping motions
Setting Time (By Vicat apparatus)			
Initial Set (min)		1h	
Final Set (max)		10h	
Setting Time (By Vicat apparatus)			
Initial Set (min)		1h	
Final Set (max)		10h	
Application conditions	°C	> 5	component and subsoil temperature
Compressive strength	N/mm ²		IS 16993:2018
3 d		approx. 29.9	
7 d		approx. 38.4	
28 d		approx. 45.8	
Slump flow time (flowability)	seconds		(IS 16993) Annex C
		approx. 50	±20

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

Colour/ Nature	grey / powder
Equipment cleaning agent	water
Delivery form	Centricrete UF-IN 25 kg bag
Storage	Can be stored in original sealed packages at temperatures between 5°C and 30°C in dry conditions for at least 6 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]