Centricrete UF-IN

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

BE SURE. BUILD SURE.

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±2ºC). 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.

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TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	Ratio	1 : 0.5	comp. A : comp. B water
Density	kg/dm³	0.78	EN ISO 3675
Specific gravity	g/cc	3.1	
Blaine surface	cm²/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/mm²		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

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