

Centrament Proof Special C

3-in-1 powdered waterproofing admixture for concrete



PRODUCT PROPERTIES

- Powdered admixture
- Permanent waterproofing
- Interrupts capillaries and fills pores
- Hybrid plasticizing and hydrophobic effect
- Highly effective against pressurized water
- Improves overall workability of concrete
- Reduced risk of water-related damages
- Reduced carbonation and sulfation speed
- Prolongs service life of concrete

AREAS OF APPLICATION

- Concrete with increased water impermeability requirements
- Watertight concrete for underground constructions
- Pipes, shafts, ducts, manholes and other sewerage components
- Concrete exposed to pressurised water
- Tanks, pools, basins and concrete containers
- Concrete for constructions designed for long service life

APPLICATION ADVICE

Centrament Proof Special C is a powdered concrete admixture designed for elements and structures that have a higher requirement for water absorption and penetration resistance.

The hybrid waterproofing effect is introduced after mixing into concrete, either at the batching plant (preferable) or on site. Centrament Proof Special C allows for a ten percent reduction in mixing water without sacrificing workability. As a result, the overall porosity decreases, improving compressive strength and resistance to water ingress. Using a proprietary combination of additional active components, the remaining pores and capillaries are then filled, sealed, and hydrophobised.

Centrament Proof Special C typically requires no extra mixing if added at the batching plant. However, for the best results, mix the product for 30-60 seconds with the dry aggregates (sand and gravel) before adding cement and mixing water. If the powder is added directly into the concrete truck at the job site, rotate the drum at high speed for at least 3-5 minutes to ensure proper dispersion.

Other concrete admixtures, such as superplasticizers, can be combined with Centrament Proof Special C. Depending on the project, the suggested dosage of Centrament Proof Special C is 1-3% of the cement by weight. For advice and approval, please contact our technical department. As a rule of thumb, the following criteria should be met in order for Centrament Proof Special C to work optimally:

- Concrete strength class \geq C25/30
- W/C ratio \leq 0.50
- Cement content \geq 350 kg/m³

Adequate curing of the concrete is essential to protect the concrete from drying out too rapidly.

Please note the "General Information on the Use of Concrete Admixtures".

We encourage consulting an expert (ours or a third party) and doing preliminary laboratory testing to achieve the desired mechanical and waterproofing performance of the final mortar or plaster. The quality of the input materials, as well as the final formulation, should be prioritized. In order to maintain constant quality, the specified water:cement:sand ratio should be kept as accurately as allowed.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Recommended dosage range	g	10 - 30	per kg cement
Chloride content (maximum)	%	0.1	mass fraction
Alkaline content	%	10.0	mass fraction
Water/cement ratio	w/c	≤ 0.5	recommended
Cement content	kg	≥ 350	recommended per 1 m ³ concrete

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

Type of admixture	waterproofing sealant per EN 934-2: T9
Designation of admixture	Centrament Proof Special C
Colour	beige/grey
Form	powder
Notified body	Karlsruhe Institute of Technology (KIT), Materials Testing and Research Institute, MPA Karlsruhe, notified body number 0754.
In-company production control	EN ISO 9001
Storage	Can be stored in cool and dry conditions for at least 12 months in original unopened packs.
Delivery form	800 kg Big-Bags 15 kg paper bags

Safety instructions

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

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. [2400023632]