

# Centrament Expanding Agent

Swelling agent for mortar and concrete



## PRODUCT PROPERTIES

- Chloride-free
- Swelling
- Formation of micro-pores
- Stabilized

## AREAS OF APPLICATION

- Expansive-cement concrete
- Expansive mortar
- Grouting mortar for the injection of pre-stressed concrete ducts (cladding tubes)

## APPLICATION ADVICE

Centrament Expanding Agent is a powdery admixture for concrete and mortar.

Friction-type filler e.g. large intermediate spaces of constructional elements, filler of spallings of construction elements and of rocks, can be completed with expansive-cement concrete, which is manufactured with Centrament Expanding Agent.

Another field of application is the refilling of break throughs in construction elements and underpinning of foundations.

Centrament Expanding Agent is used for the manufacture of expansive-cement mortar to refill, strengthen and proof small cavities, e.g. breaks, cracks at building and civil engineering. Expansive-cement mortar is also used for refilling joints in precast-elements or grouting cavernous lying floor screed.

Centrament Expanding Agent is suitable for grouting mortar for the injection of pre-stressed concrete ducts (cladding tubes) in pre-stressed concrete with indirect bonding.

Centrament Expanding Agent effects forming micro pores in cement pastes. The volume increase works against the sedimentation. Under low pressure, depending on the temperature, the expansion is approximately completed after 2-4 hours.

The expansion ensures an optimal bonding to all contact areas. Cavities are completely refilled and leak-proofed with concrete and mortar. Due to the formation of pores the strength can be slightly reduced.

Centrament Expanding Agent is most effective when added after aggregate, binder and water. Centrament Expanding Agent can be also added to the mixing water.

Use-oriented qualification examination should be recommended.

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

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Recommended dosage range	g	approx. 2 - 10	EN 934-4 (EH) / per kg cement
		approx. 2 - 25	EN 934-2 (ST) / per kg cement
Chloride content (maximum)	%	< 0.1	mass fraction
Alkaline content (maximum)	%	< 3.0	mass fraction
Bulk density	kg/dm <sup>3</sup>	approx. 0.5	

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

Type of admixture	Injection aid per EN 934-4: T1, ST per EN 934-2: T4
Designation of admixture	Centrament Expanding Agent
Colour	beige/grey
Form	pulverous
In-company production control	EN ISO 9001
Delivery form	1 kg bag (25 bags per box) 20 kg bags

**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. [2300019063]