

Milke® Specialty Cements for the Construction Chemistry



HEIDELBERGCEMENT

Cements for Demanding Construction Tasks



Quality Standard for Research and Industry

Milke® cement types from the Geseke plant are high-quality special binding agents – made by HeidelbergCement. Cement types in this product range are essential components for the development of construction chemical products suitable for the construction industry. Particularly for hydraulic setting masses, Milke cement products have established themselves, owing to their excellent rheological properties, as indispensable components throughout Europe.

To maintain the cement characteristics required for construction chemicals, different grinding and homogenization processes are available in Geseke. As a result, different tailor-made cement can be formulated for your application, based on our high-quality cement clinker.

The high-quality of the clinker burnt at the Milke plant is determined by the excellent raw material available at the Geseke site, which is a long-term secured resource. In particular, the high consistency of raw mix and the optimized burning process contribute to these special properties. For this reason, leading raw material manufacturers use our products as reference cement for testing their additives, even renowned research institutes and universities rely on our special cement for their basic research.

Product Requirements

- Consistency of cement in the chemical-mineralogical composition, fineness, colour, water requirement, setting times and strength development
- Compatibility with additives of construction chemicals

Application Areas

- Grouting mortars
- Self-levelling underlayments (SLUs)
- Tile adhesive
- Joint fillers
- Smoothing mortars

Products

- Milke® basic CEM I 42.5 N
- Milke® classic CEM I 52.5 N
- Milke® premium CEM I 52.5 R
- Milke® plus CEM I 52.5 R (sp)



Competence Guarantees Quality

HeidelbergCement develops, produces, and sells high-quality construction materials for customers throughout the globe. We offer exceptional product quality as well as for comprehensive service provision.

Modern testing and monitoring techniques guarantee that Milke cement types satisfy the highest quality demands of the construction chemicals industry. In addition to the already widespread methods used for quality assurance, which include laboratory automation systems with X-ray fluorescence analysis (XFA) and laser granulometry, HeidelbergCement also uses further complex test methods:

- X-ray diffraction analysis (XRD) with quantitative phase analysis in accordance with the Rietveld method
- Atom absorption spectroscopy (AAS)
- Polarization microscopy (reflected-light and transmitted-light microscopy) with connected image analysis system

Individually agreed delivery specifications and their monitoring complete our quality assurance measures.



Our service to you:

- Advice and support for the solution of technical application problems
- Development and modification of customer-specific special binding agents
- Carrying out of product-based training and seminars

We offer more than just cement



Our challenge is to satisfy your individual customer needs and, together with you, to search for innovative solutions. We are always at your disposal to provide comprehensive long-standing industry and product know-how.

Specialty Cements for the Construction Chemistry (according to DIN EN 197-1)

These specifications represent annual averages that are subject to normal production fluctuations.		Milke® basic CEM I 42.5 N Geseke	Milke® classic CEM I 52.5 N Geseke	Milke® premium CEM I 52.5 R Geseke	Milke® plus CEM I 52.5 R (sp) Geseke
Blaine value	cm ² /g	3000	3400	5250	7200
Water requirement for std. shore	%	26.0	27.5	29.3	38.7
Initial set	min	185	175	135	130
Final set	min	240	230	195	175
Compression strength					
12 h	MPa	-	-	-	20.3
15 h	MPa	3.8	5.2	14.5	30.4
1 d	MPa	9.7	12.1	26.4	41.6
2 d	MPa	22.2	26.0	43.2	55.5
7 d	MPa	42.3	47.5	62.9	69.0
28 d	MPa	56.4	59.9	74.7	74.8

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