

# MILKE®

Special Cements for Construction  
Chemistry and Dry Mortars

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.



→  
**Application Areas:**

Smoothing mortars, Joint fillers,  
Self-levelling underlayments (SLUs).



# 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.

## 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 and dry mortar industries. In addition to the already widespread methods used for quality assurance, which include laboratory automation systems with X-ray fluorescence analysis (XRF) 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.



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

Delivery form: Milke cement is available in bulk.

→ 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**

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## SPECIALTY CEMENTS FOR THE CONSTRUCTION CHEMISTRY AND DRY MORTARS FROM THE GESEKE PLANT\*

Annual averages 2019		Milke® classic CEM I 52,5 N	Milke® premium CEM I 52,5 R	Milke® plus CEM I 52,5 R (sp)
Blaine value	cm <sup>2</sup> /g	3480	5250	7370
Water requirement for std. shore	%	28,3	31,6	35,9
Initial set	min	200	165	140
Initial set	min	250	210	190
Compression strength				
1 d	MPa	13,3	27,6	39,1
2 d	MPa	26,0	44,6	52,8
28 d	MPa	63,5	76,3	73,4



These specifications represent annual averages that are subject to usual production fluctuations.

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