

# SH cement (Rapid hardening)

CEM I 52.5 R



## CEMENT TYPE AND CEMENT CLASS

SH cement is a CEM I Portland cement manufactured in Skövde and Slite. It has rapid compressive strength development and is used, for example, at early form stripping and when casting in cold weather. Technical data is on page 2 of this technical data sheet.

## STANDARDS AND CONTROL

SH cement satisfies the requirements of SS-EN 197-1 Cement-Part 1: Composition, specifications and conformity criteria for common cements.

SH cement Skövde is P-marked with certificate number 10 13 03 and CE-marked with certificate number 10 13 26.

SH cement Slite is P-marked with certificate number 10 13 02 and CE-marked with certificate number 10 13 25.

## PACKAGING, DISTRIBUTION AND STORAGE

Delivery takes place in bulk, in 1,000 kg big bags or in 25 kg bags by Maxit AB. Delivery terminals are listed in our price list.

Storage in an environment that has an element of moist air or direct contact with ground moisture or water damages the cement very quickly (days, weeks). SH cement must be stored in a dry, sealed silo for a

maximum of six months after delivery, as the chromate reduction process gradually loses its effect. Cement in bags must be stored on plastic-coated storage pallets for a maximum of six months after the packing date. It is always the buyer's responsibility to make sure and be able to show that the storage location is dry and sealed, and that the storage time is observed.

## GENERAL TERMS OF DELIVERY

The delivery of SH cement is subject to ABM 92 and Cements's *Special Terms and Conditions*.

## SAFETY DURING HANDLING

All cement must be stored out of the reach of children and is dangerous to consume. Cement in the eyes creates a risk of serious eye damage. Moist cement forms calcium hydroxide, which irritates the skin and the respiratory organs. For complete information and instructions on protection, see the *Material Safety Data Sheet*.

## PRODUCT INFORMATION

For the latest updates to the *Technical data Sheet*, *Material Safety Data Sheet* and *General Terms of Delivery*, see our website [www.cementa.se](http://www.cementa.se).

## TECHNICAL DATA

### SH cement CEM I 52.5 R

SH cement Skövde and Slite complies with the data below. On rare occasions the values may deviate from the specified ranges or limits.

#### Physical data

Property	Guideline value Skövde	Guideline value Slite	Range	Unit	Requirement	Current standard
Blaine fineness	510	520	± 30	m <sup>2</sup> /kg		
Setting time	115	120	± 30	min	≥ 45	EN 197-1
Compressive strength 1 d*	33	35	± 3	MPa		
Compressive strength 2 d*	45	42	± 3	MPa	≥ 30.0	EN 197-1
Compressive strength 7 d*	55	52	± 4	MPa		
Compressive strength 28 d*	64	64	± 4	MPa	≥ 52.5	EN 197-1
Compact density	3 125	3 125	± 20	kg/m <sup>3</sup>		
Bulk density	1 250	1 250	± 250	kg/m <sup>3</sup>		
Brightness	27	28	± 1	%		

\* Measured on standard mortar

#### Chemical data

Property	Limits Skövde	Limits Slite	Unit	Requirement	Current standard
Loss on ignition	1.5–2.5	0.7–1.7	%	≤ 5.0	EN 197-1
Insoluble residue	0–0.5	0–0.5	%	≤ 5.0	EN 197-1
Magnesium oxide, MgO	1.1–1.3	2.3–2.5	%	≤ 5.0	EN 197-1
Sulfates, SO <sub>3</sub>	3.3–4.0	3.1–3.8	%	≤ 4.0	EN 197-1
Chloride, Cl <sup>-</sup>	0.02–0.04	0.03–0.07	%	≤ 0.10	EN 197-1
Water-soluble, Cr <sup>6+</sup>	0–2	0–2	ppm	≤ 2 (In accordance with EG 2003/53 and KIFS 2004:6)	

## CEMENTA AB

P.O. Box 47210  
SE-100 74 Stockholm  
Tel. +49 (0)8-625 68 00  
Fax +49 (0)8-753 36 20  
E-mail [info@cementa.se](mailto:info@cementa.se)  
Website [www.cementa.se](http://www.cementa.se)