

November 2025

## Technical data

**Application:** SCHWENK CEM I 52,5 N can be used for the fabrication of concrete according to EN 206. Further applications include the use as a binder in ready mixed mortars and in ground stabilization.

**Composition:** SCHWENK CEM I 52,5 N is a hydraulic binder according to EN 197-1:2011. The main component of the cement is Portland cement clinker. Additionally, calcium sulfate is added to regulate the setting time and as minor component limestone. A tight quality control during the entire production process ensures a product of constant quality on a high level. Properties are listed in the table "Typical data", page 2.

**Properties:** SCHWENK CEM I 52,5 N is low in chromium. By adding a chromate reducing agent to the cement the amount of water-soluble chromium VI is below 2 mg/kg.

**Storage and storage time:** SCHWENK CEM I 52,5 N must be stored in a dry environment and must be protected from moisture. Storage time is at least two months under dry, moisture free conditions.

**Precautions to follow when handling the cement:** read the SDS with care before use of the product.

## Typical data:

Chemical composition		weight%
Calcium	(CaO)	58
Silicium	(SiO <sub>2</sub> )	19
Aluminium	(Al <sub>2</sub> O <sub>3</sub> )	4,4
Ferrum	(Fe <sub>2</sub> O <sub>3</sub> )	3,0
Magnesium	(MgO)	3,5
Sulfate	(SO <sub>3</sub> )	3,3
Potassium	(K <sub>2</sub> O)	1,1
Natrium	(Na <sub>2</sub> O)	0,18
Alkali content	(Na <sub>2</sub> O <sub>eq</sub> )	0,93
Water soluble chloride	(Cl <sup>-</sup> )	0,07
Water soluble chromium	Cr <sup>(VI)</sup>	<2 mg/kg

## Physical properties

Fineness (Blaine)		455 m <sup>2</sup> /kg
Density		3,13 g/cm <sup>3</sup>
Bulk density		1,17 g/cm <sup>3</sup>
Setting time		170 min
Soundness		2,0 mm
Compressive strength	1 d	20 MPa
	2 d	34 MPa
	7 d	50 MPa
	28 d	61 MPa

	
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SIA SCHWENK Latvia Broceni cement plant Rupnicas street 10, Broceni, LV-3851 Latvia 13 Nr. 1325-CPR-1410 SCHWENK 19	
EN 197-1:2011	
CEM I 52,5 N	

The product is controlled and certified (CE marked) according to EN 197-1 by Kiva, Latvia.