

February 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) | 59 |
| Silicium | (SiO ₂) | 19 |
| Aluminium | (Al ₂ O ₃) | 4,4 |
| Ferrum | (Fe ₂ O ₃) | 3,0 |
| Magnesium | (MgO) | 3,3 |
| Sulfate | (SO ₃) | 3,3 |
| Potassium | (K ₂ O) | 1,2 |
| Natrium | (Na ₂ O) | 0,18 |
| Alkali content | (Na ₂ O _{eq}) | 0,94 |
| Water soluble chloride | (Cl ⁻) | 0,08 |
| Water soluble chromium | Cr ^(VI) | <2 mg/kg |

Physical properties

| | | |
|----------------------|------|------------------------|
| Fineness (Blaine) | | 465 m ² /kg |
| Density | | 3,13 g/cm ³ |
| Bulk density | | 1,2 g/cm ³ |
| Setting time | | 170 min |
| Soundness | | 1,4 mm |
| Compressive strength | 1 d | 20 MPa |
| | 2 d | 35 MPa |
| | 7 d | 50 MPa |
| | 28 d | 61 MPa |

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| 1325 | |
| SIA SCHWENK Latvia Broceni cement plant Rupnīcas 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.