



Technical Leaflet

CEM I 52.5 N

Portland Cement

Composition:

SCHWENK Portland Cement CEM I 52.5 N is a hydraulic binder according DIN EN 197-1. Its main ingredient is Portland cement clinker, which together with calcium sulphate as congealment stabiliser is milled to SCHWENK Portland Cement CEM I 52.5 N.

By stringent production monitoring during the complete production procedure a uniform quality on a high level is maintained.

Properties:

SCHWENK Portland Cement CEM I 52.5 N is low on chromate. By addition of a chromate reducer the contents of water soluble chromium VI < 2 ppm.

Application:

SCHWENK Portland Cement CEM I 52.5 N can be used for the production of all concretes according DIN EN 206-1/DIN 1045-2.

Mainly SCHWENK Portland Cement CEM I 52.5 N is used for concretes for which higher and highest strength classes must be achieved and/or high early strengths are needed.

Concrete precast industry

A preferred field of use of SCHWENK Portland Cement CEM I 52.5 N is the concrete precast industry. This cement contributes significantly to the economical production of precast components made from pretensioned concrete in direct bond.

Concrete additives:

The addition of concrete additives is permitted according DIN EN 206-1/DIN 1045-2, if they conform to the relevant regulations or a general technical approval is available. Concrete additives with approval may only be used under the conditions as stated in the approval document. For the production of pretensioned concrete with direct bond according DIN 1045-1 as concrete additives only fly-ash and silica fume or inert powdered minerals according DIN EN 12620 and pigments with proven harmlessness for pretensioning steel, may be used.

An initial test according DIN EN 206-1/DIN 1045-2 is necessary for the addition of concrete additives.

Concrete admixtures:

The addition of concrete admixtures is permitted according DIN EN 206-1/DIN 1045-2, if they conform to the relevant regulations or a general technical approval is available and when used under the conditions as stated in the approval document.

An initial test according DIN EN 206-1/DIN 1045-2 is necessary for the addition of concrete admixtures.

Quality control:

SCHWENK Portland Cement CEM I 52.5 N is subject to a self monitoring by our in-house laboratories and is externally monitored by the FIZ GmbH.

Suppliers:

Karlstadt, Mergelstetten

Delivery:

As bulk in silo trucks and bagged good in bags with 25 kg contents (Karlstadt).



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Storing:

SCHWENK Portland Cement CEM I 52.5 N must be dry stored and protected against humidity.

Storability:

When stored dry and properly, SCHWENK Portland Cement CEM I 52.5 N is low on chromate as bulk good for at least 2 months from the delivery date and as bagged good for at least 6 months from the production date.

Cited standards:

- DIN EN 197-1** Cement
Part 1: Composition, specifications and conformity criteria for common cements
- DIN EN 206-1** Concrete
Part 1: Specification, performance, production and conformity
- DIN 1045-1, 2** Concrete, reinforced and prestressed concrete structures
Part 1: Design and construction
Part 2: Concrete - Specification, properties, production and conformity - Application rules for DIN EN 206-1
- DIN EN 12620** Aggregates for concrete

Technical support:

Our application support team informs you regarding all application-technological questions.

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