

# CEM I 52,5 R

## Portland Cement

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- Composition:** SCHWENK Portland Cement CEM I 52,5 R is a hydraulic binder according EN 197-1.  
Its main ingredient is Portland cement clinker, which together with calcium sulphate as congealment stabiliser is milled to SCHWENK CEM I 52,5 R.  
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 R 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 R can be used for the production of all concretes according DIN EN 206-1/DIN 1045-2.  
Mainly SCHWENK CEM I 52,5 R 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 CEM I 52,5 R 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.

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<b>Quality control:</b>	SCHWENK Portland Cement CEM I 52,5 R is subject to a self monitoring by our in-house laboratories and is externally monitored by the Verein Deutscher Zementwerke e.V. Düsseldorf.
<b>Suppliers:</b>	Allmendingen (solely bagged goods), Bernburg, Karlstadt, Mergelstetten
<b>Delivery:</b>	As bulk in silo trucks and bagged good in bags (Allmendingen, Karlstadt) with 25 kg contents.
<b>Storing:</b>	SCHWENK Portland Cement CEM I 52,5 R must be dry stored and protected against humidity.
<b>Cited standards:</b>	DIN EN 197-1 Cement Part1: Composition, specifications and conformity criteria for common cements DIN EN 206-1 Concrete Part1: Specification, performance, production and conformity DIN 1045-1, 2 Concrete, reinforced and prestressed concrete structures Part1: Design and construction Part2: 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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The information of this leaflet is based on the actual knowledge and experiences. They provide an indicative value for the fundamental suitability and have to be adapted by examinations and tests for the practical application by the processor. For this the relevant valid laws, standards and guidelines as well as the generally accepted rules of the building technology are to be observed. With the publishing of this Technical Leaflet all earlier published Technical Leaflets lose their validity. Alterations in the scope of product and application-technological further developments are reserved. For all commercial relations our conditions of sales and delivery in their actual version apply.