

# CEM II/A-LL 42,5 R

## Portland Limestone Cement

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- Composition:** SCHWENK Portland Limestone Cement CEM II/A-LL 42,5 R is a hydraulic binder according EN 197-1. The main ingredients of SCHWENK CEM II/A-LL 42,5 R are Portland cement clinker and a selected limestone with high purity. Further calcium sulphate as congealment stabiliser is added. By stringent production monitoring during the complete production procedure a uniform quality on a high level is maintained.
- Properties:** SCHWENK CEM II/A-LL 42,5 R is low on chromate. By addition of a chromate reducer the contents of water soluble chromium VI < 2 ppm.
- Application:** SCHWENK Portland Limestone Cement CEM II/A-LL 42,5 R can be used for the production of all concretes according DIN EN 206-1/DIN 1045-2. Mainly it is used for concretes with higher strength classes. For SCHWENK CEM II/A-LL 42,5 R the following preferred fields of application unfold:
- Concrete goods industry**  
Because of its strength development the SCHWENK CEM II/A-LL 42,5 R is preferentially used for the production of paving stones, tubes, duct rings, plates as well as civil engineering and gardening components. The concrete strength needed for clearing the products can be reached fast and thus an economic production process can be achieved.
- Concrete precast industry**  
With SCHWENK CEM II/A-LL 42,5 R the concrete strength as requested in the concrete precast industry can be reached economically. The speedy strength development of this cement allows for a rational work process in the concrete precast industry.
- Ready-mix concrete industry**  
By the greater heat development during the setting of the cement SCHWENK CEM II/A-LL 42,5 R offers advantages during the colder season for the production of ready-mix concrete, as at use of this cement economical stripping and aftertreatment times can be achieved.
- 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 reinforced concrete according DIN1045-1 with direct bond as concrete additives only fly ash and silica fume or inert powdered minerals according DIN EN12620 and pigments with proved inoffensiveness for tensing steel may be used. A initial test according DIN EN 206-1/ DIN1045-2 is necessary at addition of concrete additives.
- Concrete admixtures:** The addition of concrete admixtures is permissible according DIN EN206-1/DIN1045-2, when these conform to the appropriate standards resp. has a general building authority approval and is used according to the conditions as stated in the stated conditions. A initial test according DIN EN 206-1/DIN 1045-2 is necessary at addition of concrete admixtures.

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<b>Quality control:</b>	SCHWENK Portland Limestone Cement CEM II/A-LL 42,5 R is subject to a self monitoring by our in-house laboratories and is externally monitored by the Forschungsinstitut der Zementindustrie GmbH. Düsseldorf.
<b>Suppliers:</b>	Allmendingen, Mergelstetten
<b>Delivery:</b>	As bulk in silo trucks and bagged good in bags (Allmendingen) with 25 kg contents
<b>Storing:</b>	SCHWENK Portland Limestone Cement CEM II/A-LL 42,5 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.