

CEM II/A-LL 32,5 R

Portland Limestone Cement

- Composition:** SCHWENK Portland Limestone Cement CEM II/A-LL 32,5 R is a hydraulic binder according EN 197-1. The main ingredients of SCHWENK CEM II/A-LL 32,5 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:** The advantages of SCHWENK CEM II/A-LL 32,5 R are mainly in the area of fresh concrete. The fresh concrete has a good adhesiveness, is ductile and thus is easier processable and pumpable. The good water retention capability lowers the bleeding of the fresh concrete. This leads to an improved surface development of exposed concrete surfaces. SCHWENK CEM II/A-LL 32,5 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 32,5 R can be used for the production of all concretes DIN EN 206-1/DIN 1045-2. SCHWENK CEM II/A-LL 32,5 R is also approved for concretes with high resistance against frost and de-icing salts. For SCHWENK CEM II/A-LL 32,5 R the following fields of application unfold:
- Ready-mix concrete industry**
Concretes, which are fabricated with SCHWENK CEM II/A-LL 32,5 R remain for a relative long period well workable and concretion willing.
- Screeds**
Screed mortars fabricated with SCHWENK CEM II/A-LL 32,5 R can be very well pumped and are very concretion willing, well planable and don't tend to separate water.
- 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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Quality control:	SCHWENK Portland Limestone Cement CEM II/A-LL 32,5 R is subject to a self monitoring by our in-house laboratories and is externally monitored by the Forschungsinstitut der Zementindustrie GmbH Düsseldorf.
Suppliers:	Allmendingen, Bernburg, Mergelstetten
Delivery:	As bulk in silo trucks and bagged good in bags with 25 kg contents
Storing:	SCHWENK Portland Limestone Cement CEM II/A-LL 32,5 R must be dry stored and protected against humidity.
Cited standards:	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.

Ulm Telephone: +49 731 9341-123 · Telefax: +49 731 9341-398
Bernburg Telephone: +49 3471 358-500 · Telefax: +49 3471 358-516
E-Mail schwenk-zement.bauberatung@schwenk.de

Sales offices: **Bernburg** Telephone: +49 3471 358-0 · Telefax: +49 3471 358-516
Karlstadt Telephone: +49 9353 797-0 · Telefax: +49 9353 797-499

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SCHWENK Zement KG · Hindenburgring 15 · 89077 Ulm · Telephone: +49 731 9341-0 · Telefax: +49 731 9341-416
E-Mail: info@schwenk-zement.de · www.schwenk-zement.de

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