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.
CEM II/A-LL 32,5 R

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
  - 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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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.