

Technical leaflet

CEM II/A-LL 42.5 N

Portland limestone cement

- Composition:** SCHWENK Portland limestone cement CEM II/A-LL 42.5 N is a hydraulic binder according to EN 197-1.
- The main components of SCHWENK CEM II/A-LL 42.5 N are Portland cement clinker brick and a selected limestone with high purity. Calcium sulphate is added to control hardening.
- Strict production control throughout the production process ensures an even quality at a high level.
- Properties:** The main advantages of SCHWENK CEM II/A-LL 42.5 N are in the fresh concrete area. Fresh concrete holds together well, is supple and therefore easier to process and pump. The good water retention prevents bleeding of the fresh concrete. This improves the appearance of exposed concrete surfaces.
- SCHWENK CEM II/A-LL 42.5 N has a low chromate-content. Addition of a chromate reducer brings the content of water-soluble Chrome VI down to < 2 ppm.
- Use:** SCHWENK Portland limestone cement CEM II/A-LL 42.5 N can be used to produce any concrete according to DIN EN 206-1/DIN 1045-2.
- SCHWENK CEM II/A-LL 42.5 N is also approved for concretes with a high frost and thawing salt resistance.
- SCHWENK CEM II/A-LL 42.5 N has the following areas of use:
- Premixed concrete industry**
Concretes made using SCHWENK CEM II/A-LL 42.5 N will remain processable and compaction-capable well for a relatively long period of time.
- Screeads**
Screed mortars made with SCHWENK CEM II/A-LL 42.5 N can be transported very well, compact very well, can be smoothed well and do not emit any water.
- Concrete additives:** The addition of concrete additives is permitted according to DIN EN 206-1/DIN 1045-2 when they comply with the relevant provisions or when subject to general building-supervisory approval.
- Approved concrete additives must only be used subject to the conditions named in the approval notice.
- When producing pre-stressed concrete according to DIN 1045-1 with direct composite, only fly ash and silica dust or inert rock meals according to DIN EN 12620 as well as pigments proven not be to harmful for pre-stressing steel must be used as additives.
- An initial test according to DIN EN 206-1/DIN 1045-2 is required when adding concrete additives.
- Concrete admixtures:** The addition of concrete admixtures is permitted according to DIN EN 206-1/DIN 1045-2 when they comply with the relevant provisions or when subject to general building-supervisory approval and are used subject to the conditions named there.
- An initial test according to DIN EN 206-1/DIN 1045-2 is required when adding concrete admixtures.

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Quality monitoring:	SCHWENK Portland limestone cement CEM II/A-LL 42.5 N is subject to internal monitoring in our works labs and supervised externally by the Forschungsinstitut der Zementindustrie GmbH Düsseldorf.
Delivery factories:	Bernburg, Karlstadt
Delivery:	Loose in the silo train and packed in bags (Karlstadt) with a content of 25 kg.
Storage:	SCHWENK Portland limestone cement CEM II/A-LL 42.5 N must be stored dry and protected from moisture.
Cited provisions:	DIN EN 197-1 Cement Part 1: Composition, requirements, conformity criteria of cement DIN EN 206-1 Concrete Part 1: Specification, properties, manufacture and conformity DIN 1045-1, 2 Load-bearing structures of concrete, reinforced concrete and pre-stressed concrete, part 1: Dimensions and construction Part 2: Concrete specification, properties, manufacture and conformity application rules for DIN EN 206-1 DIN EN 12620 Rock grains for concrete

Technical consulting: Our building consulting will inform you on any application-technical questions.

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