

# CEM I 52,5 R (fc)

## **Fastcrete® plus**

---

- Composition:** SCHWENK CEM I 52,5 R (fc) – **Fastcrete® plus** is a hydraulic binder according DIN EN 197-1. Main ingredient for SCHWENK CEM I 52,5 R (fc) – **Fastcrete® plus** is Portland cement clinker. As congealment stabiliser calcium sulphate is added to the cement. By stringent production monitoring during the complete production procedure a uniform quality on a high level is maintained.
- Properties:** SCHWENK CEM I 52,5 R (fc) – **Fastcrete® plus** has the potential to develop very high early strength in the concrete. In comparison to normal Portland Cement the concrete hardening occurs also at low temperatures considerably faster. SCHWENK CEM I 52,5 R (fc) – **Fastcrete® plus** is low on chromate. By addition of a chromate reducer the contents of water soluble chromium VI < 2 ppm.
- Application:** SCHWENK CEM I 52,5 R (fc) – **Fastcrete® plus** can be used for the production of all concretes according DIN EN 206-1/DIN 1045-2. SCHWENK CEM I 52,5 R (fc) – **Fastcrete® plus** is suitable for concretes for which a very fast strength development is needed. A preferred field of application of SCHWENK CEM I 52,5 R (fc) – **Fastcrete® plus** is the precast concrete industry. With the cement the stripping times can be considerably reduced. Thereby the productivity of the component production and especially the utilization of the formwork materials considerably increase even without heat treatment. As the accelerating effect of SCHWENK CEM I 52,5 R (fc) – **Fastcrete® plus** also appears at lower ambient temperatures the possibility exists at unaltered stripping times to reduce the heating costs during the winter months. By the use of SCHWENK CEM I 52,5 R (fc) – **Fastcrete® plus** in pretensioned concrete the transformation times for the pretensioned concrete elements can be considerably shortened.
- Concrete additives:** The addition of concrete additives is not recommended.
- 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 are used under the conditions as stated in the approval document. However the practical concrete recipe for the safeguarding of the functionality of the system should be agreed with the application support team of SCHWENK. An initial test according DIN EN 206-1/DIN 1045-2 in case of addition of concrete admixtures is necessary.

# CEM I 52,5 R (fc)

---

<b>Quality control:</b>	SCHWENK CEM I 52,5 R (fc) – <b>Fastcrete® plus</b> is subject to a self monitoring by our in-house laboratories and is externally monitored by the Forschungsinstitut der Zementindustrie GmbH Düsseldorf.
<b>Supplier:</b>	Mergelstetten
<b>Delivery:</b>	As bulk in silo trucks
<b>Storing:</b>	SCHWENK CEM I 52,5 R (fc) – <b>Fastcrete® plus</b> 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 cement 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

---

Status: May 2015

**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](http://www.schwenk-zement.de)

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.