



SupraCEM

high-strength Portland cement 42.5 R

High-strength Portland cement for concretes requiring the highest strengths and a fast form removal or load of the structure, also suitable for concreting in cool weather thanks a high level of hydration heat.

Characteristics

CEM I 42.5 R is characterized by a rapid increase in strength, while achieving a high initial strength and final strengths (after 2 days in the range of 29 to 36 MPa, after 28 days from 57 to 62 MPa). During solidification is manifested by a high development of heat of hydration.

Usage

- concretes of high strength classes and concretes where fast demolding is required
- demanding structures made of reinforced concrete and plain concrete (bridge structures, pillars, etc.)
- small concrete elements (blocks, paving, etc.)

Advantages

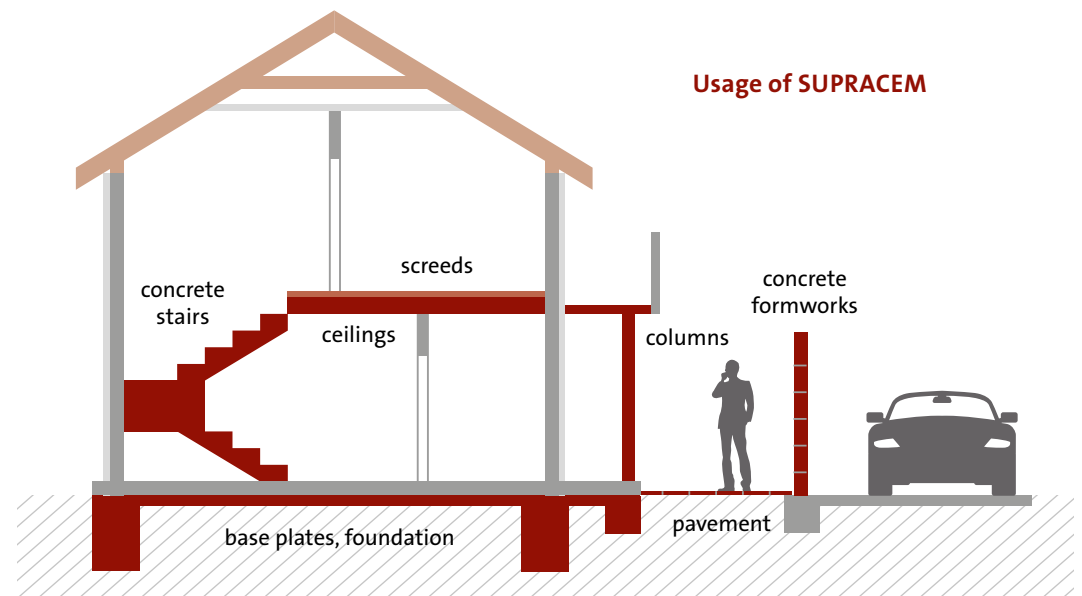
- the rapid increase in early strengths enables a
- quick demolding of products
- quick walk-on-ability of concrete surfaces
- quick load of the concretes produced
- high early and final compressive strengths
- good workability, colour fastness and low volume changes
- the high development of heat of hydration enables concreting even in cool weather

Cement for
the biggest load
and strained
construction



Cement meets the requirements. no. 275/2004 Coll. with a reduced Cr6 content. The quality of cement is supervised by TSÚS (Building Testing and Research Institute), Bratislava. CEMMAC is a holder of an ISO 9001: 2008 quality management certificate and an ISO 14001:2004 environmental management certificate.

Essential Properties	Harmonized Standard STN EN 197-1: 2011	CEMMAC SUPRACEM
2-day compressive strength (MPa)	≥ 20	29 – 36
28-day compressive strength (MPa)	≥42,5 ≤ 62,5	57 – 62
Initial setting time (min)	≥ 60	210 ± 30



Usage of SUPRACEM