CEMMAC
CEMENT

PROFI 42,5 N

Portland-composite cement

Cement suitable for the production of all types of concrete and mortars during the whole year

Universal cement for all concrete works that require high end strengths with normal run-up and higher load capacity of the structure. Ideal cement for the production of ready-mixed concrete. The lower development of heat of hydration predetermines it also for concreting in warm weather.

Characteristics

CEM II/B-M (S-LL) 42.5 N is a cement made by finely grinding Portland clinker, gypsum and limestone with blast furnace granulated slag (21-35% according to EN 197-1). It achieves a 2-day strength in the range from 20 to 24 MPa and a normalized 28-day strength of 53 to 57 MPa.

Usage

- concrete of even higher strength classes
- monolithic and massive concrete structures
- sprayed concrete
- concrete products
- underlying concrete and cement screeds

Advantages

- very good workability and volume stability
- very good pumpability of concrete
- moderately rapid increase in strength
- moderately high hydration heat
- high end strengths

Quality

The quality of cements is supervised by the 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.

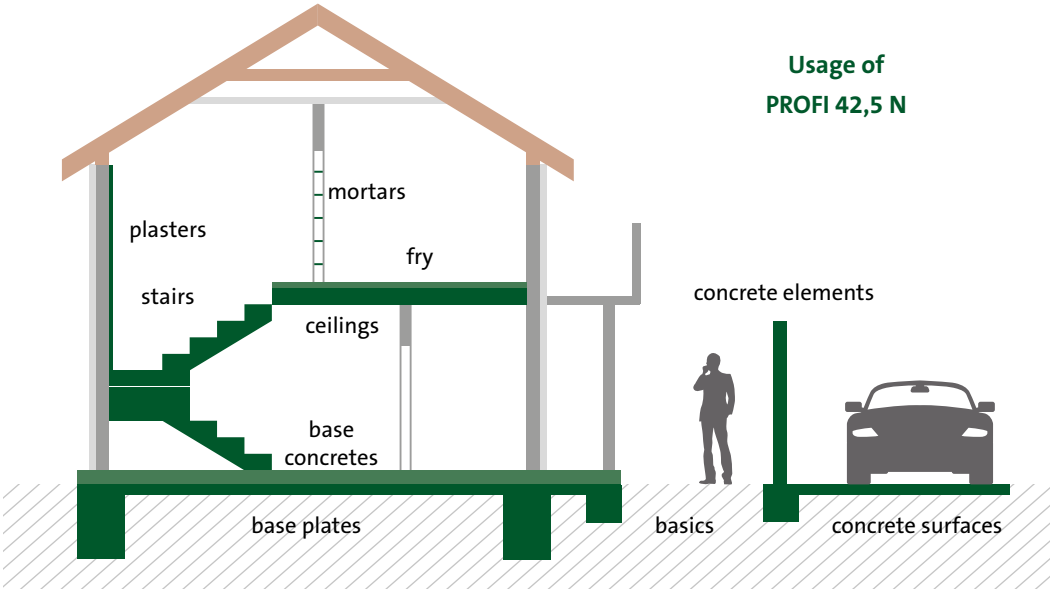
Essential Properties	Harmonized Standard STN EN 197-1	CEMMAC CEM II/B-M (S-LL) 42,5 N
2-day compressive strength (MPa)	10 ≤	20 – 24
28-day compressive strength (MPa)	42,5 ≤ 62,5	53 – 57
Initial setting time (min)	60 ≤	250 ± 30
Volume stability (expansion) Le-Chatelier (mm)	≤ 10	0,0 – 2,0
SO_3 sulphate content (%)	≤ 3,5	2,5 – 2,9
Chloride content (%)	≤ 0,10	0,06 – 0,09

The content of tricalcium aluminate in this cement is less than 7%.

CO_2 reduced emissions

The content of tricalcium aluminate in this cement is less than 5%.

Usage of PROFI 42,5 N



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