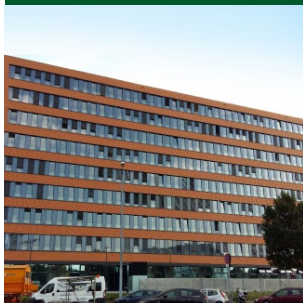
CEMMAC
CEMENT

CEM II/B-M (S-LL) 42,5 N

Portland-composite cement

Ideal cement for ready-mixed concrete production



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.

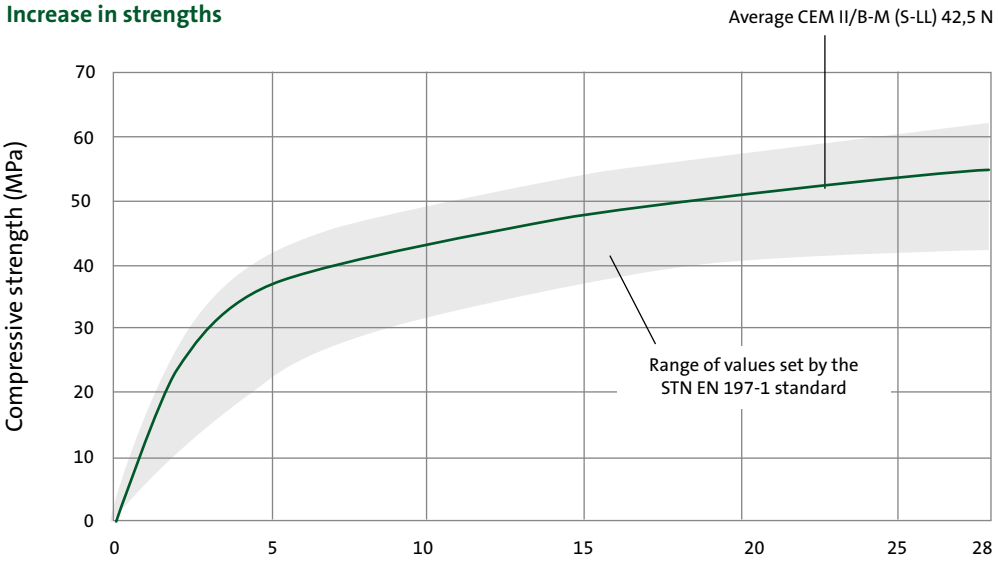
CO_2 reduced emissions

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

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%.

Increase in strengths



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