CEMMAC
CEMENT

universal
for general
concrete works

CEM II/C-M (S-LL) 32,5 R

Portland-composite cement

The ideal cement for general and minor concrete works where normal final strengths with medium fast onset are required. The lower development of heat of hydration predetermines it also for concreting in warm weather.

Characteristics

CEM II/C-M (S-LL) 32.5 R is a cement made by finely grinding Portland clinker, gypsum and limestone with blast furnace granulated slag (36-50% according to STN EN 197-5). It achieves a 2-day strength in the range of 14 to 18 MPa and a normalized 28-day strength of 42 to 46 MPa.

Usage

- plain concrete and reinforced concrete
- concrete and concrete elements
- concretes of low and medium strength classes
- production of small concrete elements
- underlying concrete and cement screeds

Advantages

- reasonably fast increase in strength
- excellent workability simplifies the placement of concrete and facilitates the smoothing of screeds
- high plasticity improves pumpability and simplifies machine processing of screeds and plasters
- low heat of hydration
- moderately high final strengths

Essential Properties	Harmonized Standard STN EN 197-5	CEMMAC CEM II/C-M (S-LL) 32,5 R
2-day compressive strength (MPa)	10 ≤	14 – 18
28-day compressive strength (MPa)	32,5 ≤ 52,5	42 – 46
Initial setting time (min)	75 ≤	220 – 260
Volume stability (expansion) Le-Chatelier (mm)	≤ 10	0,0 – 1,0
SO3 sulphate content (%)	≤ 4,0	2,6 – 2,7
Chloride content (%)	≤ 0,10	0,06 – 0,09

CO_2 reduced emissions

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

Usage of OPTIMCEM