

# CEM III/A 32,5 N

All-purpose normal-setting cement with an exceptionally good workability and soundness, designed for all types of lower to middle strength concretes, mortars and soil stabilizations.

Cement suitable for massive structures and stabilization of soils



## Characteristics

CEM III/A 32,5 N is a cement with normal increase in early strengths with a very good workability. It is produced by fine grinding of clinker, blast furnace slag (45 – 50 %), gypsum (5 – 6 %) and minor constituents (< 5 %).

It attains early strengths after 2 days ranging from 13 to 15 MPa, 7 days strength 28 to 32 MPa and standard 28-day strength of 47 to 52 MPa, meaning that this cement highly exceeds the minimum strengths set by the standard. Cement contains chromium reducing agent to keep the level of soluble chromium VI below 2 ppm.

## Use

- low and middle strength classes of concrete and reinforced concrete
- concrete surfaces, subconcrete
- foundations and bed slabs
- soil stabilizations

## Advantages

- its excellent workability facilitates the placing and compaction of concretes and facilitates the smoothing of screeds
- its high plasticity improves the pumpability of concretes, screeds and mortars, and also enables machining
- the lower development of heat of hydration predetermines it to working even in warm weather
- the normal increase in early strengths minimizes the risk of cracks in the structure
- the longer workability period simplifies the placing of concretes

## 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 EN 197-1	CEMMAC CEM III/A 32,5N
2-day compressive strength (MPa)	–	13 – 15
7-day compressive strength (MPa)	≥ 16	28 – 32
28-day compressive strength (MPa)	≥ 32,5 ≤ 52,5	47 – 52
Initial setting time (min)	≥ 75	250 – 320
Volume stability (expansion) – Le-Chatelier (mm)	≤ 10	0,0 – 2,0
SO <sub>3</sub> sulphate content (%)	≤ 4,0	2,5 – 2,7
Chloride content (%)	≤ 0,10	0,03 – 0,09

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