

CEM III/A 32,5 R

all-purpose cement

All-purpose cement
for private residen-
tial construction



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.



All-purpose quick-setting cement with an exceptionally good workability and soundness, designed for all types of concretes and mortars in residential construction.

Characteristics

CEM III/A 32,5R is a cement with a faster increase in early strengths with a very good workability. It attains early strengths after 2 days ranging from 12 to 18 MPa and standard 28-day strength of 45 to 52 MPa, meaning that this cement **highly exceeds the minimum strengths set by the standard.**

Use

- plain concrete and reinforced concrete
- concrete surfaces, subconcrete
- foundations and bed slabs

Advantages

- **the faster increase in the early strengths** enables a quick walk-on-ability of the surfaces produced
- 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
- an optimum combination of the quantities of its **components improves the watertightness of concretes and the mechanical bond**
- the **lower development of heat of hydration** predetermines it to working even in warm weather
- it is slightly sulfate-resistant (up to the chemical environment XA1).

Essential Properties	Harmonized Standard EN 197-1	CEMMAC CEM III/A 32,5 R
2-day compressive strength (MPa)	≥ 10	12 – 18
28-day compressive strength (MPa)	≥ 32,5 ≤ 52,5	45 – 52
Initial setting time (min)	≥ 75	220 ± 50
Volume stability (expansion) – Le-Chatelier (mm)	≤ 10	0,2 – 0,9
SO ₃ sulphate content (%)	≤ 4,0	3,2 ± 0,2
Chloride content (%)	≤ 0,10	0,05 ± 0,03

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

Increase in strengths

