

CEM II/A-S 42,5 R

Portland-slag cement with high early strength and 42,5 MPa standard strength according to MSZ EN 197-1.

Scope of utilization

This type of cement is primarily suitable for ready-mix concrete. It can be built in monolith structures that is subject to at most a slightly aggressive chemical stress. Besides well can be used in prefabrication.

Usable for:

- industrial and civil establishment
- roads and bridges
- court surfaces, paving, industrial floors
- constructions for hydraulic and civil engineering
- reinforced and prestressed reinforced concrete
- paving layouts
- wet mortars manufactured in plants.

The product is sold in bulk.



Directions of use for the production of concrete mixtures and concrete structures with the cement type CEM II/A-S 42,5 R

High early strength, 42,5 MPa standard strength cement with good workability due its blastfurnace slag content. Thank to its high heat evolution this cement type can be used also in cold weather. It is mainly recommended to be used for producing C30/37 – C60/75 compressive strength class concrete mixtures.

In order to achieve great usability and low water/cement factors the application of plasticizer or super plasticizer admixtures is suggested. With decent handling and appropriate compression beautiful surfaces can be produced.

Aftercare of the structure is very important and has to be planned while taking into consideration the actual weather conditions and local facilities.

Packing:	bulk: in tanker trucks
Transportation:	on road or by rail
Storage:	dry, in closed silos, protected from moisture
Durability:	bulk - two months in dry silos after delivery
Colour In powder form:	light grey, colour may vary compared to other cements and types
Date of issuing:	29. February 2024
Valid:	until revocation

Please ask for and use our safety data sheet!

MSZ EN 197-1 CEM II/A-S 42,5 R cement technical parameters

Cement composition CEM II/A-S 42,5 R contains the amount of clinker and other additives that is set in standard MSZ EN 197-1. Furthermore is contains gypsum in the amount necessary for controlling the start of the setting.

Technical parameters	Typical value	Standard
Start of setting time (minutes):	200	≥ 60
2 day compressive strenght (MPa):	27,0	≥ 20,0
28 day compressive strenght (MPa):	56,0	≥ 42,5 ≤ 62,5

Above technical parameters are given by the results measured at the quality assessment laboratory of Holcim Hungary Ltd. The assessments have been carried out according to the effective MSZ EN 196-1; MSZ EN 196-3 and MSZ EN 196-6 standards.

Given parameters are informative, please ask for assistance from our adviser colleague.

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