ROBUSTEK CEM II/A-L 42,5R PORTLAND LIMESTONE CEMENT









Production Sites Secil-Outão Plant Maceira-Liz Plant

Packaging Bulk 25kg sacks

Certification

Cement certified according to NP EN 197-1. Certificates of Performance Regularity and Declarations of Performance 0856-CPR-0115 (Secil-Outão) and 0856-CPR-0121 (Maceira-Liz)

Product Composition (Cement Core)	80% to 94% Portland Clinker 6% to 20% Limestone 0% to 5% Other Constituents	
Main Characteristics	Grey-coloured, lower-heat cement with better workability than a CEM I cement in the same strength class. Quick resistance development (high initial resistance). Final resistances within the rated class values (resistance at 28 days).	
Main Applications	CEM II/A-L 42.5R Portland Limestone Cement is a highly versatile product, combining good workability and high strengths, characteristics that enable it to be used in concrete of different strength classes and lightweight or heavyweight prefabrication. CEM II/A-L 42.5R cement is a product especially formulated and suited to:	
	 ready-mixed or cast in-situ medium to high resistance concrete; prestressed concrete at current ages; shotcrete, lightweight concrete and blinding concrete; heavyweight standard turnover prefabrication or lightweight high turnover prefabrication; reinforcement and repair of structural concrete. 	
Specific Warnings	The correct development of resistances is sensitive to the curing process. • care should be taken to avoid drying of all concreted parts; • concreting in very hot or cold weather should be avoided. To achieve optimum performance in concrete and mortar, it is recommended to study the composition. The enhanced workability enables the mixing water dosage to be reduced, ensuring a water/cement ratio compatible with the application conditions. It is possible to add fly ash under specific conditions and provided quality control and prior composition study requirements are fulfilled.	
Safety Notice	Handling powder cement may cause irritation to the eyes or airways. When mixed with water, it can also cause sensitive skin. The use of a dust mask, goggles, safety gloves and overalls is recommended to protect the hands and the skin. For detailed information refer to the Safety Datasheet.	



CHEMICAL CHARACTERISTICS

Properties	Testing Method	Specified Value (1)
Sulphate Content (in SO3)	NP EN 196-2	≤ 4,0%
Chloride Content	NP EN 196-2	≤ 0,10%

(1) The percentages refer to cement paste.

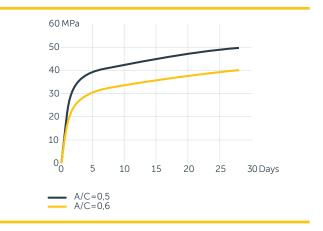
MECHANICAL CHARACTERISTICS

Compressive Strength (MPa)						
Resistance during the first days		Reference resistance	NP EN 196-1			
2 days	7 days	28 days				
≥ 20	-	≥ 42,5 e ≤ 62,5				

PHYSICAL CHARACTERISTICS

Properties	Testing Method	Specified Value
Start of Setting	NP EN 196-3	≥ 60 min
Expandability	NP EN 196-3	≤ 10 mm

Indicative average values of compressive strength of concrete manufactured with 350 kg/m³ of CEM II/A-L 42.5N cement



CUSTOMER SERVICE

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