

CEM II/B-L 42,5R

PORTLAND LIMESTONE CEMENT



Production Sites
Secil-Outão Plant
Maceira-Liz Plant

Packaging
Bulk

Certification
Cement certified according to NP EN 197-1.
Certificates of Performance Regularity and Declarations of Performance
0856-CPR-0169 (Secil-Outão) and 0856-CPR-0167 (Maceira-Liz)

Product Composition (Cement Core)	65% to 79% Portland Clinker 21% to 35% 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). Good wall effect on face-to-face products and minimisation of segregation (improvement of finishes). Easy to pump and use.
Main Applications	CEM II/B-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 in lightweight prefabrication. CEM II/B-L 42.5R cement is a product especially formulated and suited to: <ul style="list-style-type: none"> • ready-mixed or cast in-situ medium resistance structural concrete; • lightweight high turnover prefabrication; • shotcrete, lightweight concrete and blinding concrete; • concrete for road floors, bases and wear layers.
Specific Warnings	The correct development of resistances is sensitive to the curing process. <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • it is recommended to study the composition; • it is recommended to control and monitor the amount of water in the mix. Making such adjustments to the dosage may lead to improved performance.
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 SO ₃)	NP EN 196-2	≤ 4,0%
Chloride Content	NP EN 196-2	≤ 0,10%

(1) The percentages refer to cement paste.

MECHANICAL CHARACTERISTICS

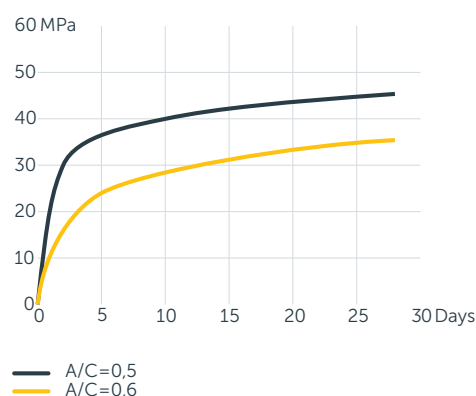
Compressive Strength (MPa)

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/B-L 42.5R cement



CUSTOMER SERVICE

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