

CEM I 52,5R (br)

PORTLAND WHITE CEMENT



Production Sites
Cibra-Pataias Plant

Package
Bulk

Certification
Cement certified according to NP EN 197-1.
Certificate of Performance
and Declaration of Performance 0856-CPR-0152

Product Composition (Cement Core)	95% to 100% Portland Clinker 0% to 5% Other Constituents
Main Characteristics	White cement, with reflectivity in excess of 85% and with high hydration heat. Very early development of initial resistance (high initial resistance). Final resistance within the rated class values (resistance at 28 days).
Main Applications	Portland White Cement CEM I 52,5R (br) is a very high strength, extremely white cement used in situations where superior mechanical and aesthetic behaviour is required. CEM I 52.5R (br) cement is recommended primarily for: <ul style="list-style-type: none"> • the manufacture of reinforced concrete of striking architectural effect (white or coloured) and high strength; • pre-reinforced light prefabrication in a high productivity regime; • heavy prefabrication in a high productivity regime.
Specific Warnings	When used in exposed concrete with a striking architectural design and to ensure the desired final finish, additional care is required: <ul style="list-style-type: none"> • in concrete formulation and manufacturing (water/binder dosage, quality and type of aggregates, additives); • in application (scheduling and phasing of concretes, quality of formwork and form strippers, etc); • in demolding, curing and final protection process. (For detailed information consult SECIL Technical-Commercial support) The proper development of resistance is sensitive to the curing process, so care should be taken to avoid the drying of concreted parts exposed to sun and wind (potential shearing). Concreting in very hot weather should be avoided.
Security information	Handling powder cement may cause irritation to the eyes or airways. When mixed with water, it can also cause sensitised 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)
Loss on Burning	NP EN 196-2	≤ 5,0%
Insoluble Residue	NP EN 196-2	≤ 5,0%
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

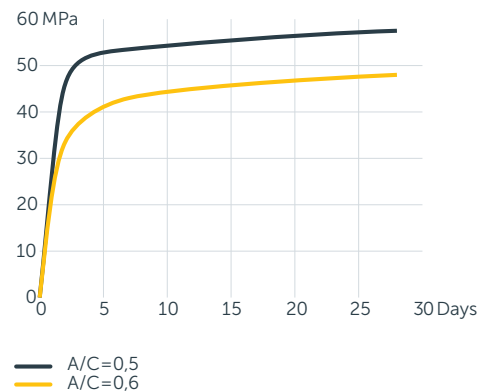
Compressive Strength (MPa)

Resistance during the first days		Reference resistance	NP EN 196-1
2 days	7 days	28 days	
≥ 30	-	≥ 52,5	

PHYSICAL CHARACTERISTICS

Properties	Testing Method	Specified Value
Start of Setting	NP EN 196-3	≥ 45 min
Expansibilidade	NP EN 196-3	≤ 10 mm

Indicative average values of compressive strength of concrete manufactured with 350 kg/m³ of CEM I 52.5R (br) cement



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