

# ARCHITEK CEM II/A-L 52,5N (br) PORTLAND WHITE LIMESTONE CEMENT



**Production Sites**  
Cibra-Pataias Plant

**Package**  
Bulk  
40kg sacks

**Certification**  
Cement certified according to NP EN 197-1.  
Certificate of Performance and  
Declaration of Performance 0856-CPR-0153

<b>Product Composition (Cement Core)</b>	80% to 94% Portland Clinker 6% to 20% Limestone 0% to 5% Other Constituents
<b>Main Characteristics</b>	White, high reflectivity, lower-heat hydration cement with better workability than a CEM I cement in the same strength class. Initial and final resistances within rated class values.
<b>Main Applications</b>	Portland White Limestone Cement CEM II/A-L 52,5N (br) is a very white cement with high mechanical strength. It is used for works and parts of striking architectural effect, in exposed white or coloured concrete. It is also used in the pre-fabrication of various structural and non-structural parts and components. CEM II / A-L 52.5N (br) cement is therefore used for: <ul style="list-style-type: none"> <li>• exposed concrete, of high aesthetic effect, ready-mixed or cast in-situ, of medium to high resistance;</li> <li>• heavyweight standard turnover prefabrication or lightweight high turnover prefabrication, for structural elements;</li> <li>• the production of blocks, decorative panels, columns, pieces of sculpture and a range of artefacts based on white cement;</li> <li>• the preparation of industrial mortars, cement-glue, cement-based paints.</li> </ul>
<b>Specific Warnings</b>	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"> <li>• in concrete formulation and manufacturing (water/binder dosage, quality and type of aggregates, additives);</li> <li>• in application (scheduling and phasing of concretes, quality of formwork and form strippers, etc.);</li> <li>• in demolding, curing and final protection process.</li> </ul> (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).
<b>Security information</b>	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)
Sulphate Content (in SO <sup>3</sup> )	NP EN 196-2	≤ 4,0%
Chloride Content	NP EN 196-2	≤ 0,10%

(1) The percentages refer to cement paste.

## MECHANICAL CHARACTERISTICS

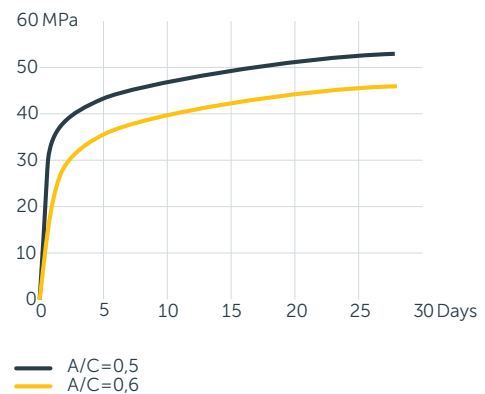
### Compressive Strength (MPa)

Resistance during the first days		Reference resistance	NP EN 196-1
2 days	7 days	28 days	
≥ 20	-	≥ 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/m<sup>3</sup> of CEM II/A-L 52,5N (br) cement



## CUSTOMER SERVICE

### CIAC – Customer Information and Service Centre

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### National Sales Directorate

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