SUPRATEK CEM I 42,5R PORTLAND CEMENT





Secil-Outão Plant Maceira-Liz Plant

Packaging

Bulk 25kg sacks

Certification

Cement certified according to NP EN 197-1. Certificate of Performance and Declaration of Performance 0856-CPR-0118 (Secil-Outão) and 0856-CPR-0124 (Maceira-Liz)











Product Composition (Cement Core)	95% to 100% Portland Clinker 0% to 5% Other Constituents		
Main Characteristics	Grey-coloured, high-heat cement. Very quick development of initial resistance (high initial resistance). Final resistances within the rated class values (resistance at 28 days).		
Main Applications	CEM I 42.5R White Portland Cement is a high quality, high performance product, widely used in civil engineering works and in the manufacture of high and very high resistance concrete. It is particularly suited to works where a very high resistance is required on the first days after application. The main applications of this cement are:		
	 ready-mixed or cast in-situ high and very high initial or final resistance concrete; high resistance lightweight concrete; early prestressed concrete; concrete cast in cold weather; prestressed lightweight and heavyweight prefabrication with high turnover of moulds and formwork; sealing and grouting. 		
Specific Warnings	The correct development of resistance is very sensitive to the curing process. • care should be taken to avoid drying of all concreted parts; • concreting in very hot weather should be avoided. This cement enables high mechanical performance concrete to be manufactured, but the prior study of compositi is recommended to achieve the best performance. The use of this cement is compatible with the introduction of latent hydraulicity additions and the use of admixture normal to improve workability with a possible reduction in the water/cement ratio.		
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)
Loss on Burning	NP EN 196-2	≤ 5,0%
Insoluble Residue	NP EN 196-2	≤ 5,0%
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.

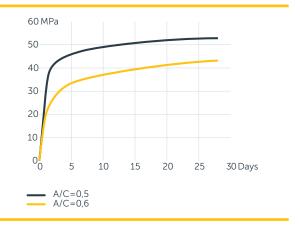
MECHANICAL CHARACTERISTICS

Resistance during the first days 2 days 7 days 28 days ≥ 20 $\sim 242,5 \text{ e} \leq 62,5$	Compressive Strength (MPa)						
		days		NP EN 196-1			
≥ 20 - ≥ 42,5 e ≤ 62,5	2 days 7 d	ays	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/m 3 of CEM I 42.5R cement



CUSTOMER SERVICE

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