

# PRODUCT DATASHEET

## PPC SURECAST 42,5 R CEMENT



**PPC**

**PPC SURECAST 42,5 R CEMENT IS A PREMIUM PORTLAND CEMENT THAT IS IDEAL FOR THE MANUFACTURE OF PRECAST CONCRETE PRODUCTS, STRUCTURAL REINFORCED AND PRESTRESSED CONCRETE, AND ANY OTHER APPLICATION WHERE HIGH EARLY STRENGTH IS REQUIRED.**

### Product Description

SURECAST is a premium quality cement made from high quality raw materials. Clinker is inter-ground with gypsum to manufacture a premium high early strength cement.

### Applications

A high early strength cement for precast concrete products, structural reinforced and prestressed concrete, masonry products, paving, grouts and shotcrete applications.

SURECAST is a tried and tested product that has been engineered to achieve consistent and appropriate performance.

### Specification

SURECAST complies with the 42,5 R strength class of SANS 50197-1 for common cements and, depending on source factory, it is identified as:

- Portland-limestone cement CEM II/A-L 42,5 R
- Portland-composite cement CEM II/A-M (S-V) 42,5 R

### Storage

Bulk storage silos should be inspected on a regular basis to ensure that the inspection hatch seal is watertight and filters are clean and unblocked.

Cement bags are not weatherproof and should be stored under cover, off the ground, on a raised timber platform or on plastic sheeting to protect against rising damp. Bags should be stacked to a maximum height of 12 bags or two pallets. Usage of bags should be first in first out.

### Handling and Safety

Refer to PPC Safety Data Sheet at [www.ppc.africa](http://www.ppc.africa)

### Technical Information

Typical technical data is supplied on the next page. Further technical information can be obtained from the PPC Cement office on (0800) 236 368.

PPC has comprehensively equipped cement chemistry and concrete laboratories and can supply specific information and assistance regarding cement and concrete technology.

### Availability

SURECAST is available throughout South Africa, Botswana and Zimbabwe. Please contact your local sales office for further details.

## Typical Properties

Chemical Properties	Typical results	SANS 50197-1 requirements
Sulphur trioxide: % by mass	2,0	≤ 4,0%
Chlorides: % by mass	≤ 0,01	≤ 0,10%

Physical Properties	Typical results	SANS 50197-1 requirements
Setting times: Initial: minutes	180	≥ 60 minutes
Specific Area (Blaine): m <sup>2</sup> /kg	400	No requirement
Typical mortar prism results determined in accordance with SANS 50197-1: Compressive strength at 2 days (MPa)	± 28	≥ 20,0
Compressive strength at 28 days (MPa)	± 50	≥ 42,5 ≤ 62,5
Soundness: Le Chatelier Expansion (mm)	0	≤ 10
Densities: Relative density	3,10	
Bulk density, aerated, kg/m <sup>3</sup>	1100-1300	
Bulk density, as packed, kg/m <sup>3</sup>	1500	
Approximate Volume: 50 kg bag, ℓ	± 33	

Please contact our sales office if actual figures are required.

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## IMPORTANT NOTE:

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