

# PRODUCT DATASHEET

## PPC SURECEM 32,5 R CEMENT



**PPC**

**PPC's SURECEM 32,5 R CEMENT IS A GENERAL PURPOSE CEMENT THAT IS IDEAL FOR CONCRETE, MORTAR, PLASTER AND BRICKS.**

### Product Description

SURECEM 32,5 R is a general purpose cement made by PPC. It is made from high quality raw materials. Clinker is inter-ground with gypsum and an appropriate amount of extender.

### Applications

Typical applications are concrete, mortar, plaster and bricks.

SURECEM 32,5 R cement is a tried and tested product that has been engineered to achieve consistent and appropriate performance. The formulation of the product has been optimised for a broad range of applications, whilst maintaining the appropriate levels of quality. It is compatible with commercial chemical admixtures. This cement should not be blended with supplementary cementitious materials such as fly ash and ground granulated slag without expert advice from PPC.

### Specification

This cement complies with the 32,5 R strength class of SANS 50197-1 for common cements and is identified as:

- Portland Composite Cement CEM II/A 32,5 R
- Portland Composite Cement CEM II/B 32,5 R

Where "CEM II" denotes Portland Composite Cement, "A" denotes an extender content between 6 and 20%, and "B" denotes an extender content between 21 and 35%. The extender quantity and type vary according to source factory.

### 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, on the ground, on raised timber platform or on plastic sheeting to protect against rising dampness. 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 chemical, cement and concrete laboratories and can supply specific information and assistance regarding cement and concrete technology.

## Typical Properties

Chemical Properties	Typical results	SANS 50197-1 requirements
Sulphur trioxide: % by mass	2,1	3,5% maximum
Chlorides: % by mass	≤ 0,01	0,1% maximum

Physical Properties	Typical results	SANS 50413-1 requirements
<b>Setting times:</b> Initial: minutes Final: hours	150 3,5	≥ 75 minutes No requirement
Specific Area (Blaine): m <sup>2</sup> /kg	360	No requirement
<b>Soundness:</b> Le Chatelier Expansion (mm)	1	10 maximum
Typical mortar prism results determined in accordance with EN 196-1: Compressive strength at 2 days (MPa) Compressive strength at 28 days (MPa)	± 17 ± 38	≥ 10,0 ≥ 32,5 ≤ 52,5
<b>Densities:</b> Relative density Bulk density, aerated: kg/m <sup>3</sup> Bulk density, as packed: kg/m <sup>3</sup>	3,04 1300 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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