

# PRODUCT DATASHEET

## PPC SURETECH 52,5 N CEMENT



**PPC**

### **SURETECH IS A SUPERIOR HIGH STRENGTH CEMENT THAT IS IDEAL FOR HIGH PERFORMANCE IN SPECIALIST APPLICATIONS.**

#### **Product Description**

SURETECH is a premium 52,5 N Portland cement ideal for a broad range of applications in the construction, building, readymix, precast and concrete product manufacturing industries where high early and final strengths are required.

#### **Applications**

SURETECH has been formulated to enable users to produce cost effective concrete and concrete products. Applications include concrete, grouts, precast products, shotcrete, masonry products and specialist applications.

SURETECH is ideal for blending with extenders such as fly ash and ground granulated metallurgical slag. SURETECH is compatible with commercial chemical admixtures.

#### **Specification**

SURETECH conforms to the 52,5 N strength class of SANS 50197-1 for common cements and, depending on source factory, it is identified as:

- Portland cement CEM I 52,5 N
- Portland-limestone cement CEM II/A-L 52,5 N

#### **Storage**

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 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.

#### **Availability**

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

## Typical Properties

Chemical Properties	Typical results	SANS 50197-1 requirements
Insoluble residue: % by mass	2,0	5,0 maximum
Sulphur trioxide: % by mass	2,0	4,0 maximum
Loss on ignition: % by mass	2,5	4,0 maximum
Sulphur trioxide: % by mass	< 0,01	0,1 maximum

Physical Properties	Typical results	SANS 50197-1 requirements
<b>Setting times:</b> Initial: minutes Final: minutes	170 250	45 minimum No requirement
Specific Area (Blaine): m <sup>2</sup> /kg	400	No requirement
Compressive strength (mortar prism SANS 50196-1): At 2 days At 28 days	± 28 ± 58	≤ 20,0 ≤ 52,5 no maximum
<b>Soundness:</b> Le Chatelier Expansion (mm)	1	10 maximum
<b>Densities:</b> Relative density Bulk density, aerated, kg/m <sup>3</sup> Bulk density, as packed, kg/m <sup>3</sup>	± 3,14 1100 – 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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This data sheet was published in August 2018

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