

# product datasheet



## PPC SUREBUILD 42,5 N CEMENT

SUREBUILD IS A PREMIUM GENERAL PURPOSE CEMENT THAT IS IDEAL FOR GENERAL BUILDING OPERATIONS, STRUCTURAL CONCRETE AND THE MANUFACTURE OF CEMENT-BASED PRODUCTS.

### Product Description

SUREBUILD is a premium quality cement which is available throughout South Africa, Botswana and Zimbabwe and is made from high quality clinker, and an appropriate amount of extender.



### Applications

SUREBUILD is a premium quality cement. Typical applications are concrete, mortar, plaster, masonry products, paving, precast products, grouts, shotcrete and other general home and DIY applications.

SUREBUILD is a tried and tested product that has been engineered to achieve a consistent and appropriate performance. SUREBUILD is compatible with commercial chemical admixtures.

### Specification

SUREBUILD conforms to the 42,5 N strength class of SANS 50197-1 for common cements and, depending on source factory, is identified as one of:

- CEM II/A 42,5 N
- CEM II/B 42,5 N
- CEM III/A 42,5 N

“CEM II/A” denotes an extender content between 6 and 20 %

“CEM II/B” denotes an extender content between 21 and 35 %

“CEM III/A” denotes an extender content between 36 and 65 %

Extenders used in the manufacture of SUREBUILD include limestone (denoted “L”), fly ash (denoted “V”), and blastfurnace slag (denoted “S”). Blends of two or more of the above extenders are denoted “M”.

Examples: SUREBUILD CEM II/B-M(V-S) 42,5 N  
SUREBUILD CEM II/A-L 42,5 N

### Storage

Cement bags are not weatherproof and should be stored indoors, tightly packed together under cover, off the ground to a maximum height of 12 bags.

### Handling and Safety

Refer to the PPC Cement Material Safety Data Sheet, obtainable from PPC Cement or the PPC website.

### Availability

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



# product datasheet



Contact details are provided below:

## JOHANNESBURG

Eastgate 20 (Corner Crayston Drive  
and Katherine Street 148),  
Sandton, 2196  
Tel: 011 386 9000

## CAPE TOWN

Corner of Chain Ave & Montague Drive,  
Montague Gardens, Milnerton  
Tel: 021 550 2100

## GEORGE

13 Saagmeul Street,  
George Industrial, George  
Tel: 044 871 3024

## NELSPRUIT

Corner of De Villiers and Annecke Streets,  
Sonpark, Nelspruit  
Tel: 013 741 4140

## PIETERMARITZBURG

First Floor, Hayfields Mall,  
Pietermaritzburg  
Tel: 033 386 6171

## POLOKWANE

79 Biccard Street, Domus Building,  
Polokwane, 0699  
Tel: 015 297 2503

## PORT ELIZABETH

Fergusson Road, Off Old Grahamstown Road,  
Deal Party  
Tel: 041 486 2272/3

## PORTHOLD HOLDINGS PPC ZIMBABWE

Corner of Main Street and 13th Avenue,  
Bulawayo  
Tel: (263) 979 241

## PPC BOTSWANA

Plot 22034, Takatokwane Way,  
Gaborone West  
Tel: (267) 390 1553

## RUSTENBURG

255A Beyers Naude Drive,  
Rustenburg  
Tel: 014 597 0100

## Technical Information

Typical technical data is supplied below. Further technical  
information can be obtained from the PPC Cement help line,  
toll-free, on 0800236368 (SA only).

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

## Typical Properties

Physical Properties	Typical SureBuild 42,5 N results for PPC Group	SANS 50197-1 requirements
Setting times:		
Initial: minutes	165	60 minimum
Final: hours	3,5	No requirement
Specific Area (Blaine): m <sup>2</sup> /kg	± 400	No requirement
Compressive strength (mortar prism EN 196-1):		
At 2 days (MPa)	20	>10,0
At 28 days (MPa)	> 45	>42,5 <62,5
Soundness: Le Chatelier Expansion (mm)	1	10 maximum
Densities:		
Relative density	3,05	
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	

**IMPORTANT NOTE:** The information and/or specifications contained herein  
are given in good faith as being true and accurate but no liability is accepted  
by PPC, its employees, distributors, representatives or agents, for any loss or  
damage, direct or indirect, resulting from using the information, following  
the specifications or adopting recommendations and/or suggestions as  
actual conditions of use are beyond its control.

For more advice on cement please ask your PPC Cement stockist or call the  
PPC toll-free help line 0800236368 (SA only).



**PPC**

Visit our website at: <http://www.ppc.co.za>

 [facebook.com/ppc.cement](https://facebook.com/ppc.cement)

 [@PPCisCement](https://twitter.com/PPCisCement)

 [youtube.com/user/ppccement](https://youtube.com/user/ppccement)