



**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 general purpose cement made at all PPC factories from high quality raw materials. Clinker is interground with gypsum and an appropriate amount of extender.

**APPLICATIONS:**

SUREBUILD is a general purpose cement. Typical applications are concrete, mortar, plaster, masonry products, paving, precast products, grouts, shotcrete, soil stabilisation 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. The cost of SUREBUILD has been optimised for a broad range of applications, whilst maintaining the appropriate levels of quality.

SUREBUILD is compatible with commercial chemical admixtures.

**SPECIFICATION:**

SUREBUILD conforms to the 32,5 strength class of SANS 50197-1 for common cements and is identified as:

- CEM II/B-M (L-S) 32.5R

Where "M" represents a composite cement consisting of limestone ("L") and Corex Slag ("S").

"B" indicates a mixture content between 21 and 35%.

- CEM II/B-L 32.5R

Where "L" represents Limestone, and "B" indicates a mixture content between 21 and 35%.

- CEM II/B-V 32.5R

Where "V" represents silicious fly ash, and "B" indicates a mixture content between 21 and 35%.

- CEM II/A-L 32.5R

Where "L" represents Limestone, and "A" indicates a maximum limestone content of 20%.

This product is in line with requirements given in the NHBRC manual.

**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 to a maximum height of 12 bags.

#### **HANDLING AND SAFETY:**

Refer to PPC Cement Safety Data Sheet, obtainable from PPC.

#### **SUPPLY:**

SUREBUILD is available nationally from all PPC factories and most depots except Riebeeck. Please check with your local sales office for further details.

#### **PRICE:**

PPC Cement sales can be contacted for delivered prices. Contact details are provided below:

##### **JOHANNESBURG**

P O Box 40073,  
Cleveland, 2022  
Tel: 011 626 3150  
Fax: 011 626 2560

##### **CAPE TOWN**

P O Box 268, Milnerton  
7435  
Tel: 021 550 2100  
Fax: 021 550 2111

##### **GEORGE**

P O Box 4961, George  
East, 6539  
Tel: 044 871 3024  
Fax: 044 871 3076

##### **NELSPRUIT**

P O Box, 7888, Sonpark,  
Nelspruit, 1200  
Tel: 013 741 4140  
Tel: 013 741 4142

##### **PIETERMARITZBURG**

P O Box 28488, Haymarket,  
3200  
Tel: 033 386 6171  
Fax: 033 386 3545

##### **POLOKWANE**

P O Box 55491 Polokwane  
0700  
Tel: 015 297 2503/1826/0965  
Fax: 015 297 5372

##### **RUSTENBURG**

P O Box 20570, Protea Park,  
Rustenburg, 0305  
Tel: 014 597 0100  
Fax: 014 597 0115

##### **PORT ELIZABETH**

Private Bag X2016, North End,  
Port Elizabeth, 6056  
Tel: 041 486 2272  
Fax: 041 486 2145

Web site: [www.ppc.co.za](http://www.ppc.co.za)

#### **TECHNICAL INFORMATION:**

Typical technical data is supplied below. Further technical information can be obtained from the PPC Cement help line, toll-free, on 0800-023-470. PPC has comprehensively equipped chemical, cement and concrete laboratories and can supply specific information and assistance regarding cement and concrete technology.

#### **TYPICAL PROPERTIES:**

<b>Chemical Composition</b>	<b>Typical SUREBUILD 32.5R results - PPC Group</b>	<b>SANS 50197-1 CEM II/B 32.5</b>
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Sulphur Trioxide: %	1.6	4,0 maximum
Chloride: %	<0,01	0.1 maximum

**All % calculated by mass.**

Physical Properties	Typical SUREBUILD results for PPC Group Class 32,5R	Specification requirements SANS 50197-1 Class 32,5R
Setting Times: Initial: Minutes Final: Hours	165 3,6	75 minimum
Specific Surface (Blaine): m <sup>2</sup> /kg Fineness: Residue on 212 µm screen: %	345 0	-- --
Soundness: Le Chatelier Expansion: mm	1	10 maximum
Typical mortar prism results determined in accordance with EN 196-1 Early strength requirement at 2 days (MPa) Strength requirement at 7 days (MPa) Standard strength at 28 days (MPa)	-- ±30,0 ±42,0	-- ≥ 16 ≥ 32,5 ≤ 52,5
Densities: Relative density density: kg/m <sup>3</sup> Bulk density: kg/m <sup>3</sup>	3,04 1300 1500	
Approximate Volumes: 50kg bag: l	±33	

Please contact our toll free help line if actual figures are required.

**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. This data sheet was published in February 2006