

PPC CEMENT: SUREBUILD 42,5 N



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 nationally and in Botswana and Zimbabwe. It is made from high quality raw materials; clinker being inter-ground with gypsum and blended or inter-ground with 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, soil stabilization 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 portland composite cement with an extender content between 6 and 20 %

"CEM II/B" denotes portland composite cement with an extender content between 20 and 35 %

"CEM III/A" denotes blastfurnace cement with a blastfurnace slag content between 35 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 visit www.ppc.co.za

Supply and Prices

SUREBUILD is available nationally and in Botswana and Zimbabwe. For details of your local sales office, visit www.ppc.co.za or call us on 0800 023 470.

Technical Information

Typical technical data is supplied below. Further technical information can be obtained from the PPC Cement help line, toll-free, on 0800 CEMENT.

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 42,5N 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 ² /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 ³	1100 – 1300	
Bulk density, as packed, kg/m ³	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 0800 CEMENT (SA only).

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

