

PRODUCT DATASHEET

PPC SURETECH 52,5 N CEMENT



PPC

SURETECH IS A PREMIUM PORTLAND CEMENT THAT IS IDEAL FOR A BROAD RANGE OF APPLICATIONS.

Product Description

SURETECH is a premium 52,5 N Portland cement that offers more value in every bag. It is 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. It can also be used in mortar, plaster and screed mixes. SURETECH is ideal for blending with extenders such as fly ash (FA), ground granulated blast furnace slag (GGBS) and Corex® slag (GGCS). 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, is identified as:

- Portland Cement CEM I 52,5 N
- Portland Composite Cement CEM II/A-S 52,5 N

“CEM I” denotes the addition of between 0 and 5% minor addition constituent. “CEM II/A-S” denotes the addition of between 6 and 20% GGCS extender.

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 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

SURETECH is available throughout South Africa and Botswana.

Please contact your local sales office for further details.

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

Chemical Composition	Typical SURETECH 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	5,0 maximum
Chlorides: % by mass	< 0,01	0,1 maximum

Physical Properties	Typical SURETECH results	SANS 50197-1 requirements
Setting times: Initial: minutes Final: hours	125 2,5	45 minimum No requirement
Specific Area (Blaine): m ² /kg	400	No requirement
Compressive strength (mortar prism EN 196-1): At 2 days (MPa) At 28 days (MPa)	28 ± 58	≥ 20,0 ≥ 52,5 no maximum
Soundness: Le Chatelier Expansion (mm)	1	10 maximum
Densities: Relative density Bulk density, aerated, kg/m ³ Bulk density, as packed, kg/m ³	± 3,14 1100 – 1300 ± 1500	
Approximate Volume: 50 kg bag, ℓ	± 33	

Please contact our sales office if actual figures are required.

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

PPC BOTSWANA

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

RUSTENBURG

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

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.

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