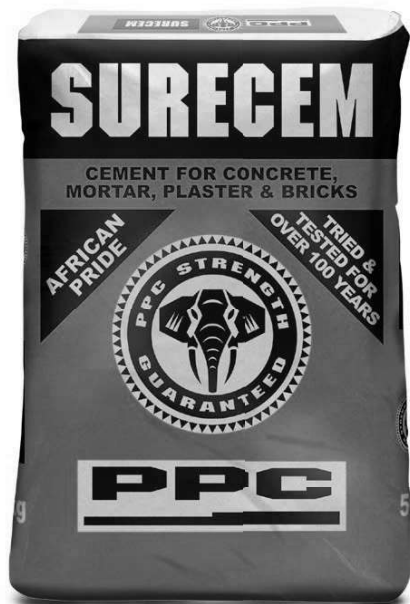


PRODUCT DATASHEET

PPC SURECEM CEMENT



PPC

PPC's SURECEM IS A GENERAL PURPOSE CEMENT THAT IS IDEAL FOR GENERAL BUILDING OPERATIONS, STRUCTURAL CONCRETE AND THE MANUFACTURE OF CEMENT BASED PRODUCTS.

Product Description

SURECEM is a cement made at the PPC Bulawayo and Harare factories from high quality materials. Clinker being inter-ground with gypsum and an appropriate amount of extender.

Applications

SURECEM is a general purpose cement. Typical applications are concrete, mortar, plaster, masonry products, paving, precast products, grouts, shotcrete, soil stabilisation.

SURECEM is a tried and tested product that has been engineered to achieve a consistent and appropriate performance. SURECEM has been optimised for a broad range of applications, whilst maintaining the appropriate levels of quality. SURECEM is compatible with commercial chemicals.

Specification

SURECEM is a cement designed to meet the 32,5 strength class of ZWS EN 197-1 for Common Cements and is identified as:

- Portland Limestone Cement Cem II/ B-L 32.5 N

Where "L" represents Limestone and "B" exceeds 20% extender.

Storage

Bulk storage silos should be inspected on a regular basis to ensure the inspection hatch seal is watertight and filters are clean and unblocked. Cement bags are not waterproof and should be stored under cover, off the ground to a maximum of 12 bags.

Handling and Safety

Refer to PPC Safety Data Sheet, obtainable from PPC or the PPC Website. ppc.africa/zw/

Supply

SURECEM is available from the Bulawayo to the Harare sales offices and various retail outlets.

Price

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

- **Portland House**
Cnr. J.M.N. Nkomo Street & 13th Ave,
P.O. Box 1493. Bulawayo
- **2111 Ventersburg, Sunway**
Industrial Msasa, Harare

Technical Information

Typical technical data is supplied below. Further technical information can be obtained from the PPC Cement sales office on (0800) 236 368.

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










Typical Properties

Chemical Properties	Typical results	ZWS EN 197-1 requirements
Sulphur trioxide: % by mass	1,9	3,5% maximum
Loss of Ignition: % by mass	2,7	5,0 maximum
Chlorides: % by mass	± 0,01	0,1 maximum

Physical Properties	Typical results	ZWS EN 197-1 requirements
Setting times: Initial: minutes	270 ± 30 mins	≥ 75 minutes minimum
Final: hours	± 6 hrs	No requirement
Specific Area (Blaine): m ² /kg	340	No requirement
Fineness: Residue on 212 µm screen: %	0	No requirement
Soundness: Le Chatelier Expansion (mm)	1	10 maximum
Compressive strength (Mortal Prism EN 196-1) at 2 days (MPa)	13 ± 2MPa	No requirement
at 28 days (MPa)	39 ± 2MPa	≥32,5 ≥52,5
Densities: Relative density	2,91	
Bulk density, aerated, kg/m ³	1300	
Bulk density, as packed, kg/m ³	1500	
Approximate Volume: 50 kg bag, ℓ	± 35	

Please contact our sales office if actual figures are required.

MIX PROPORTION GUIDE

APPLICATIONS	CEMENT	CONCRETE SAND*	STONE (20mm)	YIELD per m ³
Low Strength Concrete (10 - 15 Mpa)	 (1)	 (3½)	 (3½)	0.35
Medium Strength Concrete (10 - 15 Mpa)	 (1)	 (2½)	 (2½)	0.25
High Strength Concrete (10 - 15 Mpa)	 (1)	 (2)	 (2)	0.20

Successful mortar/ Plastering

- Always mix on a clean hard surface
- Clay bricks must be lightly soaked half an hour before applying
- Keep damp for at least 7 days to prevent cracking
- Concrete bricks must not be soaked before laying
- Mix only as much as you can use in an hour. Should your mortar harden before it is used, discard and mix a fresh batch.

Contact Us

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