

Water-repellent Cement Datasheet

November 2017

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Water-repellent Cement for use in place of ordinary Portland cement to overcome capillary absorption of moisture into cement mortar, cement plaster and concrete. It is a premium 52,5N Portland cement ideal for a broad range of applications in the construction, building, swimming pool, precast, decorative and ready mix industries.

Technical Data

Type	Hydroscopic OPC 52,5N SANS 50197-1
Colour	Grey
Recommended batching	Enough for 45 minutes
Initial set	125 minutes
Final set	2.5 hours
Specific area	The Blaine fineness is $\pm 400\text{m}^2/\text{kg}$
Compressive strength	At 2 days- 28 MPa At 28 days- ± 58 MPa
Suggested mixing water temperature	10°C to 25°C
Suggested application temperature (ambient)	6°C to 25°C
Suggested substrate temperature	6°C to 25°C
Density	1.515kg/litre
Volume/50kg bag	± 33 litres
Protection during application	Wind and sun barriers (no direct contact with material)

Purpose

For preventing loss of water from water-containing structures. For reducing moisture movement, crazing, efflorescence and moisture penetration. For reducing rising damp in brickwork when used in mortar.

Applications

Suitable for reducing permeability in concrete tanks, reservoirs, sewerage works, cellars, basement walls and floors, garage pits, walls and precast stone. OPC 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.

Benefits

- Suitable for reducing permeability
- Excellent cement for areas where moisture is problematic such as plinths etc.
- Mechanically dispersed and evenly ground reducing the risk of 'soft spots'
- Ready for use
- Economical
- Water tight but vapour permeable
- Chloride free
- Improved workability without increased water
- Increased compressive strength at earlier stages of hydration compared to conventional mortar

Cemcrete provides a comprehensive technical service based on over 3 decades of experience in the field of surface applications and cement technology. Cemcrete believes, to the best of its knowledge, that the information contained herein is true and accurate at the date of issuance and is subject to change without prior notice. For further clarification of these instructions, contact Cemcrete.

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Limitations

The quality and waterproofness of the cement mortar mixes mixed using **Water-repellent Cement** may be affected by one or more of the following:

- Poor quality sand
- Poorly graded sand
- Excessive dust or clay in the sand
- Excess water vs excess cement
- Lack of adequate curing

Specifying

“Cemcrete’s **Water-repellent Cement** for use in place of Portland cement for concrete, plaster or mortar.”

Site work

Storage

Unopened bags can be stored on slats in a dry cool shed away from direct sunlight for 6 months after date of invoice.

Mixing

Hand mixing to be thorough. If machine mixing keep mixing time to a minimum to avoid excessive air entrainment and consequent strength reduction. For mix ratios to aggregates please contact Cement & Concrete Institute.

Curing

In hot dry conditions cure completed work by damping down with water or protecting with wet sacks or plastic sheeting.

Packaging

Available in 50 kg non-returnable paper bags.

Manufacturer’s Warranty

Cemcrete warrants that the products manufactured by it shall be free from material defects and will be consistent with its normal high quality. Should any of the products be proven defective, the liability to Cemcrete shall be limited to replacement of the product ex-factory. Cemcrete makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties expressed or implied. The user shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith.

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