

Core Seal

High-Performance Cementitious
Waterproofing Coating



Description

Core Seal is a premium cementitious waterproofing coating designed to protect concrete and masonry structures from water penetration. Formulated with advanced polymers and sealing agents, it creates a dense, durable barrier that prevents water ingress while allowing the substrate to breathe. Its smooth consistency and high adhesion make it ideal for both new construction and refurbishment projects.

- Easy brush or spray application.
- Excellent bond to concrete, plaster, blockwork and shotcrete.
- Suitable for both positive and negative side waterproofing.
- Resistant to high hydrostatic pressure.
- Non-toxic; suitable for potable water environments.

Recommended Uses

- Water tanks and reservoirs.
- Basements and retaining walls.
- Swimming pools.
- Sewage and water-treatment facilities.
- Lift pits, tunnels and underground structures.
- Concrete pipes, bridge decks and jetties.

SERVICES

Cementitious coating

Crystalling Coating

Addmixture

Sealant

Grout

Epoxy primer

Repair Mortar

Flooring

PU flooring

PU coating

Bitumen Coating

Latex

Waterstopper



Technical Data

TYPE	C3
Mixed Density	1800 kg/m3
Mixing Ratio, by weight	3:1 (powder: Liquid)
Pot life	40 Minutes at 25OC
Re-coat time	20 Minutes at 40OC
% Elongation	8 - 12 Hours
Abrasion resistance (ASTM D4060, CS17 wheel)	>5% (unbonded) 45 mg/1000 cycles
Water penetration DIN 1048	7 bars - no leakage (at 2mm DFT)
Toxicity	Non-toxic
Water vapor co-efficient	>3.64 x 10-4 cm/s 2
Initial surface absorption	>95% reduction against control
Chloride ion diffusivity	Not measurable after 2 years of Testing

Consumption:

1.8 kg/m2 in 2 coats to achieve 1mm thickness.

Standards:

- ASTM D 4060.
- DIN 1048 Water Permeability Test.
- Water Research Council - "Suitable for use in contact with potable water".

Important Information:

Supplied in: 20 kg two-pack unit.

Storage: Dry, frost free, out of direct sunlight.

Shelf life: Powder is 6 months & liquid is 12 months.

Hazard class: No dangerous goods, Consult MSDS for details..

Application Guidelines

Substrate Quality:

The surface must be clean and free from contaminants such as laitance, loose particles, oil and grease, old coatings, curing compounds etc. The concrete pull-off strength must be greater than 145 psi.

Surface Preparation

The surface preparation should be done using high pressure washing, grit blasting, mechanical wire brushing for small areas. The surface must be properly pre-wetted to get water saturated air-dry surface. All the pores/blow holes and cracks must be filled using Core special mortars if any.

Mixing:

The mixing ratio is 1:3 (Parts by weight). The mixing must be done using mechanical forced action mixer or drill with a paddle (maximum 500 rpm.), in a clean container. Shake the liquid before adding any powder in it. Start mixing whilst slowly adding powder in the liquid component to achieve a homogenous mix, free from any lumps.

Application:

Start applying Core Seal with a spray machine or by hand, using a stiff brush. Apply the first coat on the prepared surface as prescribed and apply the second coat perpendicular to the direction of application of the first coat, as soon as it cures.

Curing:

Core Seal should be dried for at least 3 days to ensure full cement hydration and to minimise cracking. Use polyethene sheet or other approved products to cover and retain the moisture, which is essential for curing.

The information contained in this brochure reflects our current knowledge and experience and is intended to assist designers, contractors and end users. It does not release the purchaser from carrying out their own tests and verifications to ensure the product is suitable for the specific application. All data presented are based on tests under normal laboratory conditions; actual values may vary on site. Recommendations are given in good faith but without warranty, as conditions beyond our control may affect product performance. Core Chemicals reserves the right to modify specifications without prior notice. The purchaser is responsible for ensuring the product is used in accordance with current standards and regulations. Our technical service team is available to provide guidance at any time.

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