

SiliconSeal Water-Based Sealer

Datasheet

January 2026

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SiliconSeal Water-Based Sealer is a milky white, low-viscosity penetrating sealer that greatly reduces water absorption in concrete, masonry, clay brick, cement brick, natural stone, fibre cement, and plaster surfaces, providing superior hydrophobic protection.

Technical Data

Type	Penetrative waterproofing system
Colour	Milky white liquid which dries clear
Final cure	7 - 14 days
Working time after mix	Not applicable
Application temperature (ambient)	5°C to 30°C
Substrate temperature	5°C to 30°C
UV resistance	Stable
Coverage	3 - 6m ² / litre (2 coats wet-on-wet) substrate dependant
Density	0.95kg / litre
Protection during application	Use sun, wind and rain barriers / Protect glass and all metal surfaces
Safety	See MSDS

Purpose

SiliconSeal Water-Based Sealer is designed to deeply penetrate porous mineral surfaces and provide long-lasting hydrophobic protection by altering the masonry / water interfacial tension. It cures to form durable cross-linked resins within the substrate, significantly reducing water absorption while allowing the surface to remain breathable.

Benefits

- Greatly reduces water absorption in concrete, cement, cement plaster, mortar, natural sandstone, clay & cement bricks & coloured cement finishes
- Provides superior hydrophobic protection with a strong beading effect
- Penetrates pore structure up to 3mm (substrate porosity dependent)
- Alters interfacial tension and cures to form durable, cross-linked resins
- Allows moisture vapour transmission; substrate remains breathable
- Does not darken or alter the colour of the treated surface
- Suitable as a water-repellent primer for emulsion paints, silicone resin paints, and plasters (overcoat times as per below)
- Ready to use - easy application by brush, roller, or spray
- Environmentally friendly, water-based formulation with low VOC content (compliant with EU regulations)

Uses

- Water-repellent treatment for porous mineral surfaces.
- Ideal for wet areas such as showers and for exterior walls and floors to prevent "wet-back" behind cement coatings.
- Suitable for both interior and exterior applications.
- Breathable treatment for surfaces requiring moisture vapour permeability.
- May also serve as a water-repellent primer for emulsion paints and plasters, silicone resin emulsion paints and silicone resin plasters.

Cemcrete provides a comprehensive technical service based on over 4 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

- Not film building, but rather crystalline in structure for water repellency.
- Not suitable for less absorbent, dense natural stone, especially limestone, marble and reinforced concrete for bridges and roads.

Suitable Surfaces

Concrete, cement, cement plaster, mortar, natural sandstone, clay & cement bricks & pigmented cement finishes.

Specifying

Surface treatment:

Cemcrete's **SiliconSeal Water-Based Sealer** applied liberally by brush, roller or spray in one coat. **SiliconSeal Water-Based Sealer** should be applied to a substrate to a point of saturation (until surface absorbs no more). It is not film building, but rather crystalline in structure for water repellency, and in certain applications, it should be over coated with a film forming sealer to prevent dirt retention i.e. wet areas and high dirt environments.

Weather

- Do not apply if temperatures are below 10°C or exceeds 30°C.
- Do not apply to exterior surfaces if any form of precipitation (including rain, dew, snow, or condensation, etc) is expected within 12 hours of application.

Surface Preparation

Cemcrete decorative coatings / overlays

Surface to be cured according to the applicable datasheet and have less than 5% moisture content (depending on the surrounding humidity). Surface must be dry, dust-free and laitance-free prior to sealer application.

Newly laid standard screed / Cemcrete Colour Hardener

Surface to be integrally sound (no cracks, crumbling, friability, hollowness, delamination), dry, smooth, level, dust-free, oil-free, laitance-free. Newly laid screeds and Cemcrete's Colour Hardener need to be cured for at least 21 days and have less than 5% moisture content (depending on the surrounding humidity), before sealing commences. Curing membranes and shutter release agents should be completely removed before the commencement of work.

Existing screed / slab surface

Moisture levels should be tested to ensure no underlying waterproofing issues exist. Substrate(s) should preferably be ground with a grinder to remove surface residues and to expose the true condition of the substrate. Surfaces should be hard (no crumbling or cracking) and have good compressive strength. They should also be clean, free of contaminants, or laitance of any kind which may impair adhesion.

Newly applied plaster

Surface to be integrally sound (no cracks, crumbling, friability, hollowness, delamination), dry, smooth, level, dust-free, oil-free, laitance-free. New plaster needs to be cured for at least 21 days and have less than 5% moisture (depending on the surrounding humidity), before sealing commences. Curing membranes and shutter release agents should be completely removed prior to the commencement of work.

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Existing Plaster

Moisture levels should be tested to ensure no underlying waterproofing issues exist. Surfaces should be hard (no crumbling or cracking). They should also be clean, free of contaminants, laitance of any sort, or any coating which may impair adhesion.

Masking

For best results, all windows, doors and adjacent surfaces (especially glass or aluminium), should be masked using painter's tape and brown paper to prevent soiling these surfaces during application. All masking material must be removed at the end of the day to avoid fraying the edges of the application, and to prevent plasticizer migration or sticky residue from the tape. Care should be taken when removing the tape to ensure no product is pulled away with it.

Mixing

Rock drum in inverted position for a few minutes before opening and stir contents thoroughly before use. Do not shake the drum, as this may aerate the sealer.

Application

- Apply two liberal coats of **SiliconSeal Water-Based Sealer** wet-on-wet by brush, roller, or spray.
- When applying to vertical surfaces (e.g. walls), work from bottom to top to avoid run marks.
- For horizontal surfaces, the product may be applied using a flooding technique to ensure the substrate is fully saturated (i.e. the surface no longer absorbs the product).
- Avoid leaving any pooling or excess product on the surface during application.

NOTE: The second coat must be applied while the first coat is still wet. If it starts to rain, stop treatment, and cover the infused areas.

Curing

SiliconSeal Water-Based Sealer must be allowed to dry for a minimum of 2 days, and a maximum of 5 days, depending on the weather, to allow the solvent to fully evaporate. Application of another sealer, or decorative coating, before or after this window, will result in adhesion problems. Full cure takes place after 7 - 14 days.

Specimen Finish

A trial area should be treated on-site for end-user approval and suitability.

Coverage

Face bricks	6m ² / litre (2 coats wet-on-wet)
Porous bricks	3m ² / litre (2 coats wet-on-wet)
Concrete	4m ² / litre (2 coats wet-on-wet)

These figures are approximate and will vary according to the texture and porosity of the particular surface.

Maintenance

If **SiliconSeal Solvent-Based Sealer** was used on its own, the surface may be hosed down or cleaned with a neutral pH cleaner. Avoid harsh chemicals such as ammonia or bleach. If over coated with a film-forming sealer, refer to that product's datasheet for specific maintenance instructions.

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Cleaning

Clean all application equipment with water.

Packaging

Available in 1, 5 & 20 litre containers.

Storage

Store at room temperature in unopened drums for a maximum of 4 months from date of invoice. Once opened, the container can be resealed, but must be closed tightly.

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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Johannesburg Head Office

8 Telford Street
Industria
011 474 2415

Johannesburg Showroom

227 Jan Smuts Avenue
Parktown North
011 447 3149

Centurion Showroom & Warehouse

15 Coachmen's Park
26 Jakaranda Street, Centurion
012 653 6808

Cape Town Showroom & Warehouse

Eagle Park, cnr Bosmansdam &
Omuramba Roads, Montague Gardens
021 555 1034