

# SiliconSeal Water-Based Datasheet

May 2021

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A milky white water-based, low viscosity, penetrating liquid for hydrophobic infusing and priming of mineral surfaces. Using the latest technology, the product is especially characterized by an excellent beading effect. It is supplied ready for application by brush, roller, or spray and when applied to mineral substrates, it will reduce the capillary absorption of the substrate which it has penetrated but does not clog pores or capillaries. There is therefore little or no impairment of the building material's ability to "breathe".

## 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   |
| Abrasive resistance               | Penetrative sealer. As good as the substrate                           |
| 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** combines the properties of both organic polymers and inorganic silicates like quartz, and cures to form durable cross-linked resins. Depending on porosity of the surface to be treated. **SiliconSeal Water-Based** penetrates the pore structure to a depth of about 5-10mm and alters the masonry / water interfacial tension in this region and curing to form durable cross-linked resins. Masonry treated in this way can still "breathe" and moisture can dry out through the surface.

## Applications

**SiliconSeal Water-Based** is an excellent water-repellent for many absorbent mineral substrates, such as bricks, sand-lime brick, natural sandstone, and mineral plasters. It is less suitable for less absorbent, dense natural stone, especially limestone, marble and reinforced concrete for bridges and roads. Owing to its aqueous consistency and storage stability, **SiliconSeal Water-Based** is ideal for in-plant impregnation of building materials made of clay, aerated concrete, sand-lime brick, fibrous cement, mineral fibres, and lightweight aggregate. **SiliconSeal Water-Based** may also serve as a water-repellent primer for emulsion paints and plasters, silicone resin emulsion paints and silicone resin plasters.

Apply the ready-to-use solution by flooding. Excess solution can be mopped up. For very absorbent substrates, you may need to apply 2 coats.

**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.

## Colours

A milky white liquid treatment which dries clear and does not darken or change the colour of the surface to which it is applied.

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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## Specifying

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### Surface treatment:

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

## Specimen Finish

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A trial area should be treated on-site for the architect or engineer's approval.

## Suitable Surfaces

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Concrete, cement plaster, mortar, natural sandstone, clay and cement bricks, and coloured cement finishes.

## Site Work

### Storage

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Store at room temperature in unopened drums for a maximum of 4 months after date of invoice.

## Weather

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Do not apply during wet or freezing weather conditions.

## Surface Preparation

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Surfaces should be clean and dry. Concrete, plaster, or cement bricks should be at least one month old.

## Masking

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Mask all adjacent surfaces, especially glass or aluminium to prevent etching or staining.

## Mixing

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Rock drum in inverted position for a few minutes before opening and stir contents thoroughly before use.

## Curing

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**SiliconSeal Water-Based** should be allowed to dry for at least 2 to 3 days depending on the weather to allow the water to fully evaporate. The best time to overcoat **SiliconSeal Water-Based** with a sealer would be between 2 to 7 days after application. Application before or after this window will result in adhesion problems. Full cure takes place after 14 days.

## Coverage

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|               |                        |
|---------------|------------------------|
| Face bricks   | 6m <sup>2</sup> /litre |
| Porous bricks | 3m <sup>2</sup> /litre |
| Concrete      | 4m <sup>2</sup> /litre |

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

## Packaging

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Available in 1, 5 & 20 litre containers.



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## Manufacturer's Warranty

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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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