

RoofSeal Datasheet

November 2017

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The **RoofSeal** Acrylic system embraces a primer/bonding coat, an impregnating **RoofSeal** coat, a very tough spun bonded polyester membrane, a second impregnating **RoofSeal** coat and, when all work is dry (minimum 3 days), a final **RoofSeal** coat. **RoofSeal** is waterproof, very durable and ultra-violet light resistant.

Technical Data

Type	Acrylic waterproofing and polyester membrane system
Colour	Limited to six common roof shades. See website www.cemcrete.co.za
Initial set	Touch dry after 2 to 3 hours depending on relative humidity
Recoating time	6 hours depending on weather
Final cure	± 3 days depending on weather and relative humidity
Cleaning of equipment	Clean with clean water immediately after use
Application temperature (ambient)	8°C to 30°C
Substrate temperature	8°C to 30°C
UV resistance	UV stable and weather resistant
Abrasive resistance	Remains plastic during the first 3 days. Thereafter develops good abrasion resistance.
Density	1.3kg/litre
Protection during application	Sun and wind barriers
Safety	See MSDS

Purpose

To provide an extremely durable, easy-to-apply membrane system for concrete roofs, fibre cement and cement tiles. Although essentially a roof paint, it also has other applications such as side cladding, previously painted galvanized roofs, parapet walls and the sealing of roof/gutter bolts. It is waterproof but not vapour proof and substrates should therefore be dry before use.

Benefits

- Resilient, flexible, UV and weather resistant.
- **RoofSeal** withstands cracking and movement of the underlying surface.
- Easy to apply and economical.
- Seals joints and covers fine cracks.
- Can be applied over previously painted surfaces.
- Application tools are easy to clean with water while wet.
- A maintenance coat is only required every 3 to 4 years.
- Non-toxic.

Limitations

- Do not apply if rain is imminent or if there is a risk of frost within 24 hours of application.
- Do not use **RoofSeal** under tiles or in areas of long term ponding.
- Whilst **RoofSeal** is designed to be weather resistant, it is advisable to give a maintenance coat every 3 - 4 years.
- Not for use over bitumen or creosote as these products 'bleed through' to the surface.

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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Specifying

- **RoofSeal** is designed to waterproof pitched/flat roofs, parapets, flashings, wall and chimney capping's, roof joints and roof screws.
- Waterproof exterior walls.
- Seal joints and repair hairline cracks.
- Use over old paint and waterproof cement, plaster, concrete and galvanized iron.

Specimen Finish

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

Maintenance

It is suggested that the system be re-coated with a single full coat of **RoofSeal** every 3 to 4 years.

Suitable Surfaces

Concrete, timber, previously painted galvanized iron, fibre cement, cement and foam cement.

Site Work

Storage

Can be stored, unopened, in cool areas and away from direct sunlight for 12 months after date of invoice. Protect from freezing.

Weather

Do not apply if rain is expected or if there is a risk of frost within 24 hours after application.

Surface preparation

RoofSeal is suitably designed for application onto substrates that are integrally sound (no cracking, no crumbling or friability, good compressive strength and free of oils or contaminants that may impair bond. Cemcrete cannot be held liable should the **RoofSeal** application be compromised as a result of failure or de-bonding (adhesion failure) occurring within the substrate due to deficiencies or lack of surface preparation.

New surfaces

Galvanised Iron (new, unweathered)

Heavy fabricator's pre-treatment must be removed with a suitable commercial cleaner/degreaser for galvanized iron. A water-break free surface indicates thorough cleaning - running water should not form droplets. Once surface is clean, apply 1 good coat of Cemcrete's Direct to Metal Paint (DTM) and allow to dry for 6 hours before applying the first coat of **RoofSeal**.

Galvanised Iron (Unpainted, weathered)

Remove all loose rust and scale by means of wire brushing, sanding, chipping, or mechanical scouring - down to bright metal. To remove dirt, salts and zinc corrosion (white rust) clean thoroughly with a suitable commercial cleaner for galvanized iron. Areas where red rust has been removed must be spot primed with Cemcrete's Direct to Metal Paint (DTM). Galvanized Iron in aggressive/coastal conditions, after thorough cleaning with a suitable commercial cleaner for galvanized iron should be coated with full coat of DTM before applying Cemcrete's **RoofSeal**.

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New concrete

The plaster should be cured for at least 28 days and moisture levels should not exceed 5% before applying **RoofSeal**. Prime the concrete with RoofSeal Acrylic Primer. Allow this coat to dry properly and then apply the first coat of **RoofSeal**.

Fibre cement and cement tiles

Prime the plaster with RoofSeal Acrylic Primer allowing each coat to dry properly between coats and then apply first coat of **RoofSeal**.

Aged surfaces

Aged concrete, fibre cement and cement tiles

Remove dust and debris, wash the entire roof area using high-pressure washing, using a rotating nozzle at a pressure between 150 and 200 bar. Alternatively, scrub the entire roof area with a bristle brush, using water from a garden hose. Old, weathered concrete, fibre cement and cement tiles is porous and may encourage the growth of fungus. Scrub these areas with either of the following solutions: HTH (chlorine) and water - 5% solution, or JIK (sodium hypochlorite) and water - 25% solution. Rinse off thoroughly, removing residues of the cleaning solution, and at the same time cleaning off dust and debris from the roof and allow to dry. Prime the substrate with RoofSeal Acrylic Primer. Allow this coat to dry properly and then apply the first coat of **RoofSeal**.

Previously painted surfaces

Remove dust, debris and chalk from old paint, as well as loose flaking paint, wash the entire roof area by high-pressure water blast, using a rotating nozzle at a pressure between 150 and 200 bar. Alternatively, scrub the entire roof area with a bristle brush, using water from a garden hose. The cleaning will reveal any areas where the adhesion of paint is still suspect. Remove down to sound substrate with scraper blades, and feather the edges. Special attention must be given to aged tiled and asbestos roofs to ensure that all loose, friable materials are removed by high-pressure water. Prime the substrate with RoofSeal Acrylic Primer. Allow this coat to dry properly and then apply the first coat of **RoofSeal**.

Mixing

Both RoofSeal Acrylic Primer and **RoofSeal** are supplied ready for use. Agitate thoroughly before use.

Application

When surface is clean and dry, prime liberally and carefully with RoofSeal Acrylic Primer using a brush, roller or broom at a rate of 5m²/litre. Allow to dry for at least 3 hours. Apply a liberal coat of **RoofSeal** using a brush or broom over an area of about 1 or 2 linear metres. Roll out and bed polyester membrane into **RoofSeal** and immediately apply a second coat of **RoofSeal** on top of the membrane. Care should be taken that the first coat is wet when the membrane is placed to ensure proper bonding. Repeat until the work is completed. The overlaps of the membrane should be at least 50mm. This operation should be carried out when there is no risk of rain or frost for about 24 hours. Allow the polyester/**RoofSeal** sandwich to dry out for 3 or 4 days, depending on the weather, and apply a final finishing coat of **RoofSeal**.

Cleaning

For intermittent use keep brushes immersed in water. Wash all equipment and body parts thoroughly with clean water. Collect excess spills with suitable absorbent material and then wash with clean water.

Coverage

RoofSeal Acrylic Primer	5m ² /litre.
RoofSeal	0.5m ² /litre for full application of 3 coats.

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Packaging

RoofSeal Acrylic Primer	1, 5 & 25 litre plastic drums.
RoofSeal	1, 5 & 25 litre plastic drums. Polyester membrane 1m wide, up to 150mm in length. The membrane is also available in flashing strips 10m long & widths of 100mm, 200mm & 300mm.

Safety

- Skin contact: Wash thoroughly with soap and water.
- Eye contact: Flush immediately with water for 10 – 15 minutes and contact a physician.
- Respiratory problems: Remove affected person to fresh air immediately and contact a physician.
- Not for internal consumption.

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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