

## Application Guide



Installation of Viking Roofspec Silicone Roof Coating system must only be undertaken by trained, licensed installers. Further product and specification information is available from Viking Roofspec.



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**0800 729 799**

[www.vikingroofspec.co.nz](http://www.vikingroofspec.co.nz)

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## A Note About Safety

All work should be undertaken in line with current occupational safety and health legislation.

You are responsible for your personal safety and the safety of those around you. Viking Roofspec urge you to take the time to understand your obligations and to plan and undertake your work safely.

### Working at Heights

“Roof work should only be undertaken by persons who have the knowledge, experience and resources necessary for the work to be completed safely.”

From Guidelines for the provision of facilities and general safety in the Construction Industry to meet the requirements of the HEALTH AND SAFETY IN EMPLOYMENT ACT 1992 & REGULATIONS 1995

### Hazardous Materials

Some materials used with this system are toxic. Safety information regarding these can be found in appropriate Material Safety Data Sheets (MSDS) available from Viking Roofspec. Correct personal protective equipment should be used where applicable.

For more information regarding OSH requirements, please contact the Department of Labour. Information online is available at:

[www.osh.govt.nz](http://www.osh.govt.nz)

## Technical Data

Data Sheet		
<b>Weatherability</b>	Excellent durability, colour stability and chalk resistance.	
<b>Toxicity</b>	Not for use in contact with edible substances or potable water.	
	ASTM D412	SilCoat Immersed in Water @ 150°F (66°C) for 1 year per ASTM D471
<b>Tensile Strength</b>	550± 10psi (3.79 ± .07 MPa)	463 psi (3.19 MPa)
<b>Tensile Elongation</b>	150% 10	125%
<b>Tensile Permanent Set At break</b>	Approx. 1%	0%
<b>Tear Resistance lbs/inch</b>	ASTM D624 Die C 21 pli (3.8kg(f)/cm)	11 pli (2.0kg(f)/cm)
<b>Hardness</b>	ASTM D2240 55 Shore A	56 Shore A
<b>Water Vapor Permeance</b>	ASTM E96	5.3 perms
	Procedure B at 0.5mm (20mils) thickness 10%, Minimum permeance requirement is 2.5 U.S. perms	
<b>Wet adhesion to Polyurethane Foam</b>	ASTM D903	3.5lbs per linear inch
<b>Low Temperature Flex</b>	ASTM D522 Method B	Pass
<b>Flammability</b>	ASTM E108	Class A
<b>Reflectance</b>	ASTM C1549	0.88 (SilCoat White)
<b>Emittance</b>	ASTM C1371	0.87 (SilCoat White)

## Product & Accessories



Respiratory protection required, unless there is adequate ventilation



Appropriate gloves required



Product Code	Description	Size
VSC100	SilCoat Silicone Roof Coating White	19L
VSC110	SilCoat Silicone Roof Coating Grey	19L



Product Code	Description	Size
VSC200	Epoxy Primer Kit Part A & B (70m <sup>2</sup> per Kit)	3.79L



Product Code	Description	Size
VSC320	SilCoat Self Adhering Roof Tape	50mm x 15.2m



Product Code	Description	Size
VSC300	Reinforcing Polyester Tape	100mm x 91m

## Product & Accessories



Product Code	Description	Size
VSC001	SilCoat Silicone Roof Coating Grey Sample	950ml
VSC002	SilCoat Silicone Roof Coating White Sample	950ml



Product Code	Description	Size
VSC310	SeamSeal	19L



Product Code	Description	Size
VSC400	SilCoat Walk pad (12m <sup>2</sup> per drum)	19L



Product Code	Description	Size
VSC410	SilCoat Walkway Granules	680g

# Application

## Preparation

The substrate surface must be clean, dry and stable.

## Cleaning

Clean the substrate, taking care not to create further damage or allow water to enter the roof through existing damage.

To remove mould or moss a dilution of household bleach can be used (<0.5% sodium hypochlorite with water). Clean the area and then ensure that fresh water is used to thoroughly irrigate the area, leaving absolutely no residue of any cleaning agent.

Allow the area to dry completely prior to proceeding.

## Weather

Rain, fog, dew, frost, relative humidity above 90% will affect the adhesion and physical properties of coating. Do not apply if any of these conditions exist or will exist within five hours of application. The substrate must be dry at the time of application. Do not proceed if there is any surface moisture and plan to allow at least 2 hours from completion of application before dew fall. Do not apply the coating system unless the surface temperature is between 13°C minimum and 38°C maximum. (Cure time will vary depending upon the ambient temperature and humidity).

## Repair

Where appropriate, examine the existing attachment system for loose fasteners, and tighten or replace as necessary. Coat all fasteners with Viking SilCoat SeamSeal.

## Application

Inspect the roof surface for any punctures, tears, cuts, cracks or open seams. Prior to applying Viking SilCoat, these must either:

- be reinforced using 100mm polyester tape (VSC300). Apply a 150mm wide coat of Viking SilCoat with a brush or roller. While the Viking SilCoat is wet, embed a strip of 100mm wide Polyester Tape centred over the coated area, and apply a topcoat of Viking SilCoat to bed in the reinforcing tape;
- or reinforced by applying Viking SilCoat SeamSeal (VSC310) by brush;
- or reinforced by applying 50mm self-adhesive Viking SilCoat Reinforced Rooftape (VSC320).

### Priming

Apply primer (VSC200) on all bituminous substrates.

Priming is suitable for existing weathered substrates-including TPO, Butyl, EPDM, liquid applied coatings and for concrete, wood, steel and galvanised surfaces.

To determine if primer is necessary, apply the adhesion test below.

### Note:

When coating any exposed plane of more than 40m<sup>2</sup>, Viking recommends always using primer to increase overall adhesion.

# Application

## Adhesion Testing (in accordance with ASTM D903)

- Mask and clean an area at least 30cm x 30cm, removing all debris.
- Rinse the area thoroughly to remove all residue and allow the area to dry completely.
- Apply a layer of Viking SilCoat (coverage rate is approx 3m<sup>2</sup>/L).
- While the Viking SilCoat (VSC300) is still wet embed a strip of 1" or 2" wide polyester fabric across the test patch leaving 100mm to 150mm of the fabric strip dry, outside the test patch.
- Apply a top coat of Viking SilCoat to the test area, covering the fabric.
- Let the coating completely cure (48 hours) then attach an appropriate scale to the end of the dry polyester strip and pull.
- A minimum of 4.5kg of pull resistance must be achieved.
- If the adhesion test fails, perform the test again, in a new area. After cleaning, apply a coat of Viking SilCoat Primer (VSC200), prior to repeating the process above.

## Applying Primer

Viking SilCoat Primer (VSC200) consists of parts "A" and "B". Both components must be thoroughly stirred separately for 3 to 5 minutes.

Next, add the "B" component to the "A" component and mix for a further 3 to 5 minutes.

Dilute the mixed primer by 20% with water (1.5L water to 8L primer kit).

Primer pot life is 2-3 hours at 24°C when thinned. (Pot life at 13°C is approx 4-5 hours, and reduces as temperature increases.)

Apply 1 coat of Viking SilCoat Primer (VSC200) at a rate of approximately 10-12m<sup>2</sup>/L by roller (use a solvent resistant medium nap roller cover).

Allow primer to dry a minimum of 12-24 hours.



## Application

Primer must be coated within 72 hours of the application. (If primer is not coated within 72 hours, mechanical abrasion is necessary to improve the coating adhesion. )

### Upstands and edges

A base coat of Viking SilCoat is required at all edges and penetrations. Where upstands or plant (e.g. existing HVAC units) have been detailed with existing membrane, the surface must be coated with Viking SilCoat up to the termination flashing and then caulked with a 100% silicone sealant (note the upstand should be a minimum of 150mm above the deck- or there is a high risk of overflow) .

### Viking SilCoat Application

Apply Viking SilCoat by brush or roller (use a solvent resistant medium nap roller cover). Apply two coats at the rate of 2.5-3m<sup>2</sup>/L per coat. Allow the first coat to become touch dry before recoating. Recoat will require a minimum of 4 hours, Viking SilCoat is moisture cured and low humidity will result in longer dry times. Recoat within 4 to 48 hours, ensuring the surface is clean and dry.

### Notes:

- A basecoat is applied at all penetrations and edges, per detailing instructions above. This is additional to the 2 coats applied to the entire surface.
- Spray application is not recommended by Viking due to climatic conditions in New Zealand.

# Application

## Optional WalkPad

After the Viking SilCoat coating is cured, tape off WalkPad area using duct tape.

Apply one coat of Viking SilCoat WalkPad (VSC400) at a rate of 1.5L/m<sup>2</sup>.

Spread Viking SilCoat WalkPad safety yellow granules into wet coating at a rate of 2kg/10m<sup>2</sup> to improve traction. Remove duct tape while coating is still wet.

## Traffic

Allow 72 hours before foot traffic.

## Clean up

Clean up of silicone coatings can be difficult and disposable roller covers or brushes are recommended.

Clean up Viking SilCoat using Mineral Turpentine or White Spirits.

Clean up Viking SilCoat Primer VSC200 (while wet) using water.

DO NOT use solvent to thin Viking SilCoat.

## Painting

DO NOT paint over Viking SilCoat with acrylic or urethane paints.

If you require help, please  
call Viking Roofspec on **0800 729 799**  
or see [www.vikingroofspec.co.nz](http://www.vikingroofspec.co.nz)



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