

Viking Silcoat Adhesion Test Instructions

Version 1.0

Overview

The following test applies to Silcoat Pro-Grade 988 Silicone Roof Coating only. An adhesion test should be completed prior to installation of the roof coating. See Viking Silcoat guide and warranty documents for adhesion test requirements by substrate. Confirm that test results meet the minimum requirements. These must be recorded on the Viking Warranty Application form upon application.

Tests are required for all areas including, but not limited to, the following: at least two tests in the field of existing roofing membrane, one for every 500 m², plus any worn roofing such as cracked or abraded surface; any change in roof membrane substrate; existing roofing membranes that were installed in phases; and any shaded areas or areas indicating ponding water.

Instructions

Identify existing roof system

- Metal
- Rubber
- TPO
- PVC
- Concrete
- Modified Bitumen
- Other

Step 1: Clean the roof. Using a high-pressure washer or high-pressure nozzle on hose, use appropriate pressure to wash the roof with a non-filming detergent. In areas with stubborn dirt, grease, or other contaminants, use a stiff bristle brush or broom to scrub the areas clean with additional water and non-filming detergent. Treat mildew or mold. Give the roof a final rinse to ensure it is free of all detergent or anything else that could affect adhesion.

Step 2: Select the test areas & label them for identification later as with primer and without primer. Mix and apply a primer coat to half of the test areas at a ratio of 50mls part A and 50mls part B. Ensure the coating is completely dry before moving to step 3.

Step 3: Apply the first coat of Silcoat 988 **Silicone** Roof Coating at 500 microns wet film gauge to two test areas.

One test area is primed with Silcoat primer, the second test area is unprimed using Silcoat 988 Silicone

While the Silcoat 988 Silicone Roof Coating is still wet, use Silcoat Polyester Reinforcing bandage to embed three 25mm x 150mm strips into each of the wet Silcoat test areas. Allow approximately 50mm of fabric to extend beyond the wet Silcoat. After embedding the fabric apply the second coat of Silcoat 988 Silicone Roof Coating at 500 microns wet film gauge over the fabric to completely cover it. Do not coat the 50mm fabric ends. Brush the Silcoat lightly to remove any trapped air.

Step 4: Allow the test areas to cure for at least 72 hours before checking adhesion. When checking adhesion, pull the fabric strips straight up, and measure the pulling force with a hand-held scale. To pass, silicone must not delaminate when pulled with a force of 3.6kg per 100mm.

Step 5: No primer will be required upon confirming a minimum adhesion result of 3.6kg per 100mm. If there is insufficient adhesion, Silcoat Primer coat must be used.

Step 6: The second pass method is where the Polyester Tape separates between the 1st and 2nd layers of Silcoat 988 Silicone Roof Coating, but the 1st layer remains fully adhered to the substrate.

Modified Bitumen

All Modified bitumen roofs must be primed with our proprietary Silcoat Bleed Trap. This will prevent the bitumen migrating into the Silicone Roof Coating. In this application, the Bleed Trap will double as the primer coat. An adhesion test is still required to ensure correct cleaning and bond has been achieved.

Moisture Testing

Moisture testing is required for all Modified Bitumen and concrete substrates regardless of age. Moisture testing is not required for Metal, TPO, PVC and Rubber membranes. These substrates **must not** be installed over when wet.

System Components



SilCoat Silicone Roof Coating			
Product Code	Description	Size	Stocked In
VSC110	SilCoat Silicone Roof Coating Grey (20m ² per 19L Drum)*For two coats	19L	AK, WN, ChC
VSC100	SilCoat Silicone Roof Coating White (20m ² per 19L Drum)*For two coats	19L	AK, WN, ChC
VSC200	Epoxy Primer Kit Part A & B (70m ² per Kit)	3.79L	AK, WN, ChC
VSC300A	Reinforcing polyester bandage	100mm x 100m Roll	AK, WN, ChC
VSC310A	SeamSeal	7.6L	AK
VSC321	SilCoat Self Adhering Roof Tape**	80mm x 40mm	AK, WN, ChC
VSC600	SilCoat Bleed Trap Coverage 2-2.5m ² /litre***	19L	AK
VSC312	Silcoat Microfibres	2.3kg	AK

- *Rates are indicative only. Coverage depends on surface texture and condition
 - **This item is available in different lengths – check with Customer Services for availability
 - ***First coat for bitumen roofs only - A generous layer of Bleedtrap
 - Refer SilCoat Application Guide for installation

For Additional Information Contact Viking Roofspec 0800 729 799