



Instructions - High Solids Silicone Roof Coating over Metal roof surfaces

1 Examination

- A. Identify all seam failures, flashings failures and inadequate sheet metal details.
- B. Inspect all roof drains to ensure proper performance.
- C. Inspect all roof system fasteners for back out.

2 Preparation

- A. Metal Panels:
 - 1. Thoroughly powerwash roof surface and all other areas to receive new coating with a minimum of 2,000 psi water pressure.
 - 2. Any areas of grease contamination are to be cleaned with an industrial strength detergent.
 - 3. Replace any structurally unsound metal panels.
 - 4. Any existing loose roofing or mastic materials should be removed.
 - 5. Prime all rusted areas with Home-Sil RP 1.3 Rust Block Primer at a rate of 1/2 gallon per square.
- B. Flashings Details: Ensure all existing flashings provide a watertight condition. If necessary, re-flash any areas required with Home-Sil Flashing Sealant.
- C. Fasteners:
 - 1. Identify and replace all fasteners that are loose or backed out and replace with oversized fastener.
 - 2. Prior to coating the field of the roof, spot apply FG 400 Flashing Sealant to all fasteners. Generously apply flashing sealant to ensure complete encapsulation of fastener.
- D. Fiberglass Skylight Panels: Thoroughly clean skylight panels and apply 2 coats (30 mils) of 100% Silicone Skylight Coating.
- E. Horizontal Laps:
 - 1. Apply pressure to lower lap panel, if more than 1/8" gap appears at lap joint, install additional fasteners.
 - 2. Install heavy coat of RC 32.00 High Solids Silicone Roof Coating approximately 12" wide over lap.
 - 3. While coating is still wet, embed FR 2.00 Polyester Fabric Reinforcer over lap. Ensure fabric is completely embedded and there are no wrinkles.



4. After the coating is fully cured, apply another heavy coat of RC 32.00 High Solids Silicone Roof Coating over fabric.

F. Vertical Laps: Ensure all vertical laps are completely tight. If necessary, add and treat additional fasteners.

3 Silicone Coating Installation

A. Ensure surface is completely clean and dry.

B. Ensure subsequent coats of primer or silicone coating is completely cured.

C. Install base coat of Home-Sil RC 32.00 Series Roof Coating at a rate of 12 mils, allow to fully cure and then install 13 mils of Home-Sil RC 32.00 Series Roof Coating topcoat. Total final minimum coating thickness on the field of the roof should be 25 mils (app 2.0 to 2.25 gal/sq.).

4 Protection of Finished Work

A. Ensure roof surface is free of traffic for a minimum of 24 hours after silicone coating application.