

THE CERTASEAL SILICONE METAL ROOF RESTORATION SOLUTION

The CERTASeal advanced Silicone Metal Cool Roof System is the premier eco-friendly cool roof solution engineered to restore and protect metal roof surfaces with outstanding UV protection, reflectivity, weatherability, and performance.

CERTASeal's Metal Restoration System eliminates leaks, stops rusting and corrosion, controls maintenance, and offers a variety of money-saving benefits including reduced energy consumption, improved roof performance and significantly extended roof service life.

The system is formulated to seal, waterproof, and protect metal roof buildings from harmful environmental effects by encapsulating the roofing system in a seamless, rubber-like monolithic membrane.

Features/Benefits

- Meets SCAQMD VOC Clean Air Solvents Standards
- Forms a Seamless Watertight Membrane
- Permanently Ends Leaking, Rusting & Corrosion
- Vastly Improves Roof Performance
- Provides excellent UV Reflectivity & Weatherability
- Substantially Reduces Building Energy Consumption
- Extends Roof Service Life 2-3x

System Installation

SURFACE PREPARATION

To ensure optimal adhesion, the roof is pressure washed and conditioned to remove all dirt, dust, debris, grease, and chemicals. A rust primer application is then applied.

1

SEAMS/DETAILS

All seams and flashing details are coated with a rubberized polymer mastic to seal off regions of primary breach while allowing for the expansion and contraction (thermal cycling) of the roof structure.

2

BASE COAT

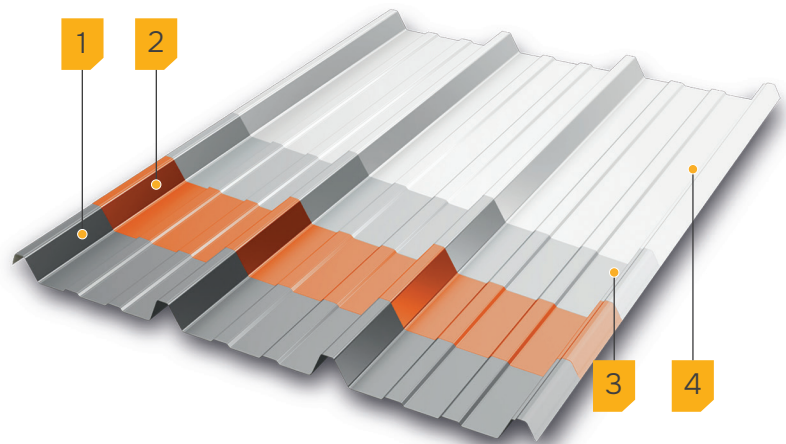
The systems low-VOC base coat is applied using a high-adhesion silicone meeting SCAQMD Clean Air Solvents standards to create a fully-adhered foundational membrane.

3

TOP COAT

The systems rubber-like high solids silicone top coat is then applied to cure at a uniform Dry Film Thickness (DFT) completing the system installation and providing unsurpassed protection, UV stability, reflectivity, and extended roof life.

4



SEAL TEAM PRE-INSTALLATION PROCEDURES

Pre-Inspection

Prior to system installation, the CERTASeal Seal Team will conduct a comprehensive roof inspection to identify regions of breach and determine whether any pre-installation repairs are necessary. The inspection includes, but is not limited to, checking and servicing all:

- HVAC Flashing
- Drainage Systems
- Leaks
- Fasteners
- Skylights
- Horizontal Seams
- Vertical Seams
- Roof Penetrations
- Sign Anchors
- Coping and Flashing

Preparation

- All roofing surfaces are thoroughly pressure washed and conditioned @ 4000 psi.
- Any existing roof coatings are checked for proper adhesion and any failing or loosely adhered coatings are removed.
- All bare surfaces are re-checked for compatibility and thorough cleanliness.

Adhesion Test

A Seal Team Pro will conduct a series of adhesion pull tests throughout various locations of the metal roof. Any adhesion failure(s) will be addressed and re-tested prior to system installation to ensure stable adhesion of the system base coat across the roof system.

Skylights

Skylights are inspected to determine the serviceable life for restoration with CERTASeal's Clear Skylight Sealant.

Rusted (Iron Oxide) Panels

Iron Oxide (rust) lacks many of the structural characteristics of metal roofing panels. When left untreated, rust will continue to spread and corrode the metal roof nearly always resulting in the deterioration and failure of the roof system.

The CERTASeal Metal Cool Roof System neutralizes iron oxide to prevent it from advancing and eliminate the opportunity for new rust to form.

Technical Data

SYSTEM TOP COAT

Solids by Volume	96% ± 2
Elongation	170 ± 25
Tensile Strength	450 ± 50
Reflectivity	Initial .87
Emissivity I	Initial .89
VOC	<50 Grams/Litre

SYSTEM BASE COAT

Solids by Volume	77%
Elongation	375%
Tensile Strength	1000 psi

NOTE: Please see CERTASeal Systems manufacturing partners product data sheets for complete technical data. Dry Film Thickness (DFT) is rounded to the nearest mil. Final DFT may vary depending on the substrate, application technique, and waste factor. This document is intended as an overview of the CERTASeal System Installation Procedures and Technical Data. All published information is subject to change without notice. Please visit www.certasealsystems.com or contact a CERTASeal Seal Team Pro for detailed technical data.

