

THE CERTASEAL SILICONE COOL ROOF RESTORATION SOLUTION

The CERTASeal high-solids, low-VOC Silicone Cool Roof System offers industry leading eco-friendly roof restoration solutions for commercial and industrial flat roofs.

CERTASeal systems are engineered to provide unparalleled protection, reflectivity, and weatherability, while enhancing roof performance and extending roof service life. These systems eliminate leaking, stop corrosion and deterioration, and provide significant reductions in roof temperatures and heat transfer, translating to dramatic reductions in building energy consumption.

CERTASeal systems are formulated to seal and protect the building structure from ponding water and harmful environmental effects by encapsulating the roofing system in a seamless, waterproof, rubber-like monolithic membrane.

Features & Benefits

- Meets SCAQMD VOC Clean Air Solvents standards
- Forms a Durable, Seamless, Rubber-Like Membrane
- Stops Leaking, Corrosion, and Deterioration
- Excellent UV Reflectivity & Protection
- Substantially Reduces Building Energy Consumption
- Leading Adhesive and Cohesive Strength
- Leading Elongation and Tensile Strength
- Extends Roof 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.

1

SEAMS/DETAILS

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

2

BASE COAT

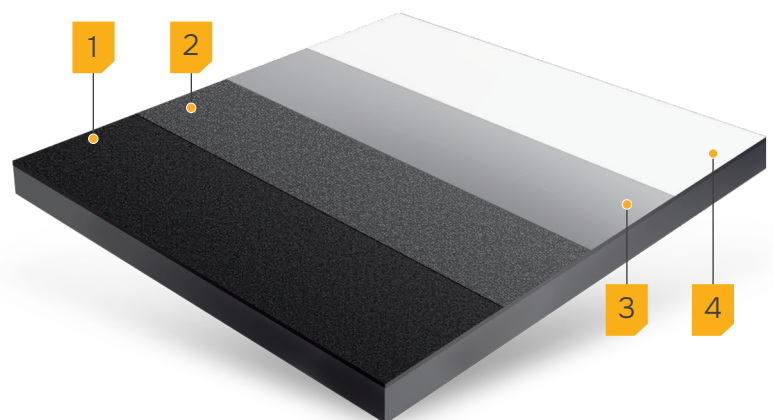
The systems low-VOC base coat is applied using a high-adhesion aromatic urethane meeting SCAQMD Clean Air Solvents standards or a low-VOC high-solids silicone (100% Silicone System) to create a fully-adhered foundational membrane.

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 application, your CERTASeal Seal Team Pro's will conduct a comprehensive pre-installation roof inspection to identify any breached regions and determine whether any pre-installation roof 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 roof substrate. Any adhesion failure(s) will be addressed, treated, 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 servicable life for restoration with CERTASeal's Clear Skylight Sealant.

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	70% ± 2
Elongation	350 ± 50%
Tensile Strength	975 ± 25 psi
Viscosity	2,000 cps

NOTE: Please see the CERTASeal 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 current technical data.

