



## CONCRETE ROOF DECK Restoration Systems



A renewed roof – this concrete roof has been waterproofed with a UV and wind resistant Poly-Sil, silicone elastomeric coating system.

### **Poly-Sil Silicone Coating System Restores Concrete Roofs and Surfaces**

Concrete has long been selected in building construction for its strength, durability and cost effectiveness, however there is one critical weakness, it is not waterproof. A silicone coating system can make concrete watertight, or restore full function to a structure, and extend its longevity for many years. Expansion and contraction, due to the heating and cooling cycles of the roof or surface, adds to these problems. Reflective and sustainable coatings offer *Cool Roof Technology*. Coating & Foam Solutions has developed the coatings and the technology to rehabilitate most roofs. Poly-Sil silicone will offer the long-lasting coating you demand. The silicone membrane is not a traffic surface and should not be used on pedestrian or vehicular decks.

Roof coatings come in a variety of formulation types, exhibiting a wide range of performance characteristics and initial cost options. Poly-Sil silicones deliver the ultimate in long-term coating value. Poly-Sil exhibits minimal degradation from UV light - a major destructive force for all organic coatings. Superior adhesion is created by stronger chemical bonds in the formulation of silicones. Silicones are inorganic and resist algae growth. By not contributing a food source, silicone will resist many of the destructive forces that commonly destroy organic roofing materials.

A “systems-approach” must be considered when weatherproofing, very often numerous problems or deficiencies are found upon a thorough inspection of a structure\*\*. The best coating system is still very dependent upon the surface to which it is adhered.

An adhesion test is always a sound recommendation. Fabric may be incorporated to reinforce any joints or cracks and areas of expected movement. Sealant and mastic may be used to seal gaps and flashings, to insure they are watertight. Additional applications of silicone coating are then applied to further seal and weatherize the surface.

#### **Concrete restoration with Poly-Sil Features + Benefits**

- Seamless - creates a leak-free surface
- Superior adhesion – maximum wind resistance
- Silicone - most long lasting coating
- Cool Roof – energy savings
- Economical - long life-cycle
- NSF International listed system
- Non-intrusive application
- Ease of application
- Sustainable – with low life-cycle costs



The existing roof system is first carefully inspected, thoroughly washed and repairs made. Installations will include a primer, a base coat, and the selected topcoat. Poly-Sil silicone coating is simple and easy to apply, and eliminates wash-off concerns.



Poly-Sil has been applied for the absolute best weather resistance and long-term performance in many environments and climates. Silicones are selected for their UV resistance and long term retention of superior physical properties.

Poly-Sil silicones offer a large window of application for roof installations. They allow for a longer roofing season. Silicone offers a wide range of application temperatures. And unlike acrylic coatings silicone is *not* prone to wash-off accidents from rain showers. Supplied as a single-component product, Poly-Sil is easily applied with most high-pressure, high-volume, airless spray equipment or simple roller applications.

Poly-Sil 2500 is a high-solids version that is VOC compliant, but maintains its ability to be sprayed - reducing project labor costs. The original version, Poly-Sil 2200, has a high 69% volume solids. This product has excellent anti-slump (*hangs on peaks*) and coverage properties. The cured physical properties include elongation of over 260%.

Coating & Foam Solutions manufactures the entire Roof-Tek® line which also includes: sealants, acrylic

and polyurethane coatings, surface primers, spray foam insulation, and accessories\*. Limited warranty options are available for applications completed by our network of Approved Applicators.

Discover the many benefits of Poly-Sil on your next waterproofing or restoration project. Poly-Sil has been trusted, and is 'performance proven' by more than twenty years of practical, in-field experience. Please contact CFS for additional information, specifications, availability, and product ordering information.

### Typical Scope of Work

- Substrate thoroughly inspected
- Substrate deficiencies identified and corrected
- Any existing materials and coatings are removed or analyzed
- The substrate is cleaned
- Seaming and flashing repairs performed
- Apply primer as recommended \*\*
- Poly-Sil basecoat applied
- Silicone topcoat application, often the bright white and reflective topcoat is the choice

\* For related topics please reference other CFS information regarding: SPF Roofing Systems, restoration of other substrates, primers or 'Why Select Silicone.'

\*\* As inherent with all coating products, proper evaluation and preparation of the substrate is critical, to the future performance of the specified and installed coating system.



NSF Protocol P151  
Health Effects from Rainwater  
Catchment System Components



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