Roofseal Silicone Top

DAVLIN COATINGS

Product Limitations:
Not recommended for continuous immersion service, for use in cryogenic tank, or cold storage roofing applications without a vapor barrier, or directly over modified bitumen, asphalt or coal tar built-up roofing systems without a sealer.

Ponding Water:
The *Roofseal* Silicone Top membrane is not affected by ponding water; however, the National Roofing Contractors Association considers ponding water on any roof undesirable and recommends that all roof systems be designed and built to ensure positive drainage. (See the NRCA Roofing and Waterproofing Manual).

Flammability Characteristics:
Roofseal Silicone Top coatings carry Class "A" Non-Combustible and Class "B" Combustible credentials as tested under UL 790 procedures over spray foam and single ply roofing systems. Contact Davlin Coatings or refer to the UL directory for specific information. Consult Davlin Coatings for any specific questions regarding the application of this product.

Davlin Coatings LLC
700 Allston Way
Berkeley Ca 94710 USA
(800) 709-5919
www.davlincoatings.com

made in the USA
designed by Davlin in California

A ready-to use, high solids, solvent free, single component, moisture cure, fluid applied silicone coating. Creates a breathable membrane possessing superior weathering and water resistance characteristics. Provides elemental protection for architectural surfaces such as vertical walls, masonry, concrete, metal, single ply membranes and sprayed-in-place urethane foam systems.

This product can be used as a topcoat over polyurethane elastomeric base coats where improved traffic and impact resistant characteristics are required.

Reduce thermal-mechanical stress and save on energy costs

CRRC COOL ROOF RATING COUNCIL MEMBER

energy ENERGY STAR

Roofing Approved Technologies California Title 24 Compliant

Application Equipment: Application Equipment: This product may be sprayed, brushed, or rolled. Due to the high viscosity of the material, a high-pressure airless paint pump capable of producing a minimum of 3500 PSI at the spray gun head should be used. The pump should have a minimum of 3 gallons per minute output and be fed by a 5:1 transfer pump to prevent cavitation. Always use components rated for pump pressure. Hoses should be BUNA-N jacketed for prevention of moisture contamination. Hoses should have a minimum I.D. of 3/4" and an adequate working pressure. The spray gun should be high pressure (5000 PSI) with reverse-a-clean spray tip, having a minimum orifice of .030 and a 50° fan tip. *DO NOT USE* hose that has been used for Acrylics or other waterborne coatings because the liner absorbs moisture and initiates the silicone cure process.

Roofseal Silicone Top

DAVLIN COATINGS

Properties / Secifications*

Tensile strength[1]: 331 PSI at 73°F/ 432 PSI at 0°F.
Elongation (break)[2]: 192% at 73°F/ 216% at 0°F.
Tear resistance[3]: 37.5 lb f/in (Die C)
Viscosity (Brookfield RVF)[4]: Typical 8,000 to 12,000 cps
Reflectivity (White)[5]: 0.70 Aged 3 yr
Emissivity (White)[6]: 0.90 Aged 3 yr
SRI value: 110 Initial
Permeance[7]: US Perms 5.9
Tensile, set at 100% elongation: Nil
Temperature stability range: -80°F to 350°F (-37°C to 177°C)
Water absorption[8]: 0.1 weight % after two weeks at 75°F (24°C)
Weathering / UV resistance[9]: No degradation @ 5000 hrs
Specific gravity: 1.30 at 77°F (25°C)
Tack free time: 1 hour (Temp/ Humidity Dependent
VOC[10]: < 50 Grams/Liter
Durometer hardness[11]: 50±5 points
Solids content by weight[12]: 96%±2
Solids content by volume[13]: 96%±2
Maximum continuous service temperature: 185°F (85°C)
Flash point[14]: (COC) 290°F.
Cure time: Minimum 2 hrs @ 100°F & 90% Humidity / Maximum 8 hrs @ 40°F & 20% Humidity
Shelf life: 6 Months When unopened and stored Between 35°F and 75° F

* Material tested complies with all the requirements of ASTM D- 6694-01 Standard Specification Liquid-Applied Silicone Coating used in Spray Polyurethane Foam Roofing.
*Passed: ASTM C1305 Crack Bridging Ability

1 ASTM D-2370
2 ASTM D-2370
3 ASTM D-624
4 #5 Spindle 20 rpm @ 77°F
5 ASTM C-1549
6 ASTM C-1371
7 ASTM E-96 (Procedure B)
8 ASTM D-471
9 ASTM D-6694
10 ASTM D-3960/EPA Method 24
11 ASTM D-2240 Shore A
12 ASTM D-1644
13 ASTM D-2697
14 ASTM D-92

Weather Restrictions: It is not recommended that this product be applied at temperatures below 50° F (10° C), or if rain is expected within 1 hour of application. *Roofseal* Silicone Top may be applied at lower temperatures, however the cure time will be extended.

Surface Preparation: All surfaces to be coated must be clean, dry, and paintable. It may be necessary to power wash and/or prime to enhance adhesion. See application specification for more details.

Mixing Procedures: No thinning or reducing is necessary. Product may separate after shipping and storage, though it may still look mixed. Mix well before use. We recommend the use of a 3/4 horsepower or larger air operated mixer with a blade capable of uniformly mixing the entire container. When product is in 5-gallon pails, use a 3" minimum diameter-mixing blade. Hand mixing with a suitable mixing blade is acceptable. When product is in drums, use a 6" minimum diameter-mixing blade. If thinning is necessary, please contact Davlin Coatings.
Containers are packaged with a layer of dry nitrogen, to keep latent moisture from prematurely starting the curing process. After opening a container, try to use it up as soon as possible, or reseal with a layer of dry nitrogen gas.

Due to the bond agent present in all coatings, colors may be used as either a base or a topcoat. The coating will cure in 2- 8 hours, depending on temperature and humidity, after which another coat can be applied. #11 ceramic roofing granules may be installed in the topcoat to improve aesthetics, traffic resistance and impact resistance.

Application Procedures: This product may be applied directly to any clean, dry surface. Polyurethane foam should be coated within 24 hours of application. Subsequent coats should be applied within 24 hours of prior applications to ensure full and uniform adhesion. Coating may be applied in 2 or 3 separate applications of contrasting colors, each applied at right angles to the previous coat. Coating must be evenly applied and pinhole-free.

Before applying a subsequent coat of this product the previous coat must be completely dry and cured. If any contamination of a thoroughly cured surface occurs, it must be washed with a chemical cleaner before applying subsequent coats. Coating must be extended beyond the substrate to create a self-terminating flashing. Consult Davlin Coatings for recommended dry film thickness.

Recoating Procedure: This product may be used to re-coat existing spray-in-place roofing systems. Surface to receive recoat must be thoroughly cleaned using power scrubber, pressure washer, chemical cleaners, or air wand. Surface must be completely dry before applying re-coat.

Cleanup: Clean up of spray equipment containing uncured material may be accomplished by flushing with VM&P Naphtha or mineral spirits. Roofeal Silicone Top cures by reacting with moisture and should not be left in spray guns, pump equipment and hoses for prolonged periods unless equipment contains moisture lock hoses, fittings and seals. Equipment without these components will transmit sufficient moisture vapor to gradually form cured material on hose walls and at unsealed connections potentially causing an increase in operating pressure and material flow restriction.