SILKOXY-H3

High Solids, No Mix, Silicone Elastomeric Coating

For Professional Use Only

EVEREST SYSTEMS

TECHNICAL DATA SHEET

DESCRIPTION

- A high-solids, single component, moisture cure fluid applied silicone coating that's ready to use.
- Best in class flexibility. Double the elongation of all major competitors, ensure long term crack resistance even in high movement situations.
- Shelf life of 18 months.
- Typically, no mixing required for up to 6 months.
- Excellent sag resistance.
- Superior weathering and excellent water resistance in a breathable membrane.
- Exceptional adhesion to unprimed weathered or painted Metal, TPO, PVC and EPDM.

RECOMMENDED USES

SILKOXY-H3 is designed as a protective coating for most roof membranes. Un-matched adhesion to unprimed TPO PVC and EPDM along with excellent performance over weathered metal, primed Cap sheet and Mod Bit membranes.

Property	Test Method	Result
Tensile Strength	ASTM D-2370	205 PSI @ 73°F ± 20
Elongation: (break)	ASTM D-2370	468% @ 73°F ± 50
Tear Resistance: (Die C) lb f/in	ASTM D-624	25
SRI	CRRC	110
Reflectivity (White)	ASTM C-1549	.87
Emissivity: (White)	ASTM C-1371	.89
Permeance US Perms	ASTM E-96 (Procedure B)	6.7
Temperature Stability Range		-80°F to 350°F (-37C to 177C)
Weathering/UV Resistance	ASTM D-6694	No degradation 5000 hours
Specific Gravity		1.30 @ 77°F (25C.)
Tack Free Time	Tem. & Humidity Dependent	20-30 min.
VOC	ASTM D-3960 EPA Method 24	<50 Grams/Liter
Durometer Hardness	ASTM D-2240 Shore A	36
Solids Content by Weight	ASTM D-1644	91%
Solids Content by Volume	ASTM D-2697	90%
Max Continuous Service Temperature		185°F (85C)
Shelf Life - Unopened Containers	18 Months	Stored @ 35°F to 75°F

COLORS

White and Light Gray, Standard Gray, Dark Gray
Custom Colors are available for an additional charge.
Allow additional 15 days for custom colors.

PACKAGING/SHIPPING INFORMATION

CONTAINER SIZE	SHIPPING CLASS
55 Gallon drum (208.2 liters)	Class 55
5 Gallon pail (18.9 liters)	Class 55

SURFACE PREPARATION

General: Surface to be coated should be dry, free of dust, dirt, oil, loose granules, peeling coating or other foreign matter. It may be necessary to power wash and/or prime to enhance adhesion.

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Solvent Free Silicone Elastomeric Coating

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APPLICATION

This product may be brushed, rolled or sprayed on a clean, dry surface. For details see Equipment Recommendations at the end of this sheet. Polyurethane foam should be coated within 24 hours of application. Coatings 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 additional coat, the previous coat must be completely dry and cured. If any contamination is present on the cured surface it must be washed and completely dry before application of subsequent coats.

Application Properties

Yield (1 gal to 100 sq ft)	**14 dry mils**
Dry Time (100°F)	**2 hours @ 90% Humidity**
Dry Time (40°F)	**8 hours @ 20% Humidity**
Recoat window	**>8 hours**
Complete Cure	**48 hours**

COVERAGE RATE

Apply at a maximum rate of 1.5 to 3 gallons per square per coat.

ENVIRONMENTAL CONDITIONS

Product must not be applied when the ambient temperature is below 0° F. Application is not recommended if rain or dew is likely to occur before product dries.

LIMITATIONS

Surface must be clean and dry. Do not apply over wet substrates or when inclement weather is imminent. In addition, this product is not recommended for use without a vapor barrier in cryogenic tanks or cold storage roofing applications or directly over modified Bitumen, asphalt or coal tar built-up roofing systems without a sealer. This product carries Class “A” Non- Combustible and Class “B” Combustible credentials as tested under UL 790 procedures over spray foam and single ply roofing systems.
Contact Everest Systems or refer to the UL directory for specific information.

SAFE PRACTICES

This product is designed for professional installation. Before working with this product, you must read and become familiar with the available information on its risks, proper use and handling. Information sources include but are not limited to MSDS and product labels. More resources are available at polyurethane.org, sprayfoam.org, everestsystemsco.com or by contacting Everest Systems directly.

EQUIPMENT

Minimum requirements:

Brush

- Synthetic filament

Roller

- 1¼” nap roller

Spray

- Minimum 6500 PSI high-pressure airless pain pump.
- 3 gallons or more per minute (continuous) output
- 5:1 transfer pump to prevent cavitation
- Hose rated to 2x maximum pump pressure
- Hose should be BUNA-N jacketed to preventmoisture contamination
- Hose lengths: (Largest diameter at pump)
  - 3/4 minimum
- Spray gun: High pressure 7000 PSI
- Spray Tip:
  - Reversible self-cleaning type
  - Orifice size of .030
  - Fan angle of 40° to 50°
- Always use components rated for pump pressures.
- Do not use a hose that has been used for Acrylics. The liner will absorb moisture and start the silicone cure process.

CLEAN UP

Clean spray equipment containing uncured material by flushing with VM&P, Naphtha or mineral spirits. SILKOXY-H3 cures by reacting with moisture. Do not leave in spray guns, pump equipment, and hoses for prolonged periods unless equipment contains moisture lock hoses, fittings and seals. Without these, material will cure on hose walls and at unsealed connections possibly causing an increase in operating pressure and material flow restriction.

To the best of our knowledge all technical data contained herein is true and accurate as of the date of issuance and subject to change without prior notice. Used must contact Everest systems Company to verify correctness before specifying or ordering. We guarantee our products to conform to the quality control standards established by Everest Systems Products. We assume no responsibility for coverage, performance or injuries resulting from use. Liability if any, is limited to replacement of the product. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY EVEREST SYSTEMS EXPRESSED OR IMPLIED; STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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