



PRODUCTS FOR OUR ENVIRONMENT

TECHNICAL DATA SHEET

ERS-SilBrite

P/N: 020-0070 (Dk. Gray)
020-0071 (Lt. Gray)
020-0072 (White)

For Professional Use Only

PRODUCT DESCRIPTION:

ERS-SilBrite is a ready to use, high-solids, single component, solvent-borne, moisture-cure fluid applied, silicone coating. It is a breathable membrane possessing superior weathering and water resistance characteristics.

RECOMMENDED USES:

Provides elemental protection for architectural surfaces such as vertical walls, masonry, concrete, metal, and sprayed-in-place urethane foam systems.

APPROVALS:



INSTALLATION: Do Not Thin!

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: Caution: DUE TO THE COMBUSTIBLE NATURE OF THIS PRODUCT, DO NOT USE AN ELECTRIC MIXER. No thinning or reducing is necessary. Product may separate after shipping and storage, though it may still look mixed. When mixing becomes necessary we recommend the use of a ¾ 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. When product is in drums, use a 6" minimum diameter mixing blade.

Weather Restrictions: It is not recommended that this product be applied at temperatures below 50°F (10°C) or if rain is expected within 4 hours of application.

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 ¾" and an adequate working pressure. The spray gun should be high pressure 5,000 PSI with reverse-a-clean spray tip, having a minimum orifice of .030 and a 50° fan tip.

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

Application: 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 48 hours of prior applications to insure full and uniform adhesion. Coating must 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 Ecology Roof Systems for recommended dry film thickness.

Due to the bond agent present in all coating, colors may be used as either a base or a topcoat. The coating will cure in 2-6 hours, dependent on weather conditions (such as temperature and humidity) after which another coat can be applied. A #11 ceramic roofing granule may be installed in the topcoat to improve aesthetics, traffic resistance and impact resistance.

Recoating Procedures: 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.

Safety Precautions: This product contains combustible solvents. Keep coating material and cleaning solvents away from all sources of heat, sparks, flame, lighted smoking materials, or any other ignition source. Pumping equipment should be grounded to avoid accidental ignition due to static sparks.

Avoid breathing solvent vapors. Use an appropriate MESA/NIOSH approved respirator when exposure can exceed recommended PEL. This product is not recommended for interior use. Additional care must be taken to prevent roof top HVAC equipment from introducing evaporating solvent into interior areas during application. Building occupants should be warned of spray operations in process.

Installers should exercise caution during spray processes to avoid falls caused by stepping into slippery wet coating. Installers should read and understand all technical informational literature on this product, including the MSDS, prior to use of the product.

PACKAGING:

This product is available in 5-gallon pails (19 liters) and in 55-gallon drums containing 50 gallons (190 liters). Available in White, Light Gray, and Dark Gray. Special colors upon request at additional charge. Allow additional 15 days for non-standard colors.

PRECAUTIONS:

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.

NOTE: Ecology Roof Systems recommends any subsequent coats of silicone be completed within 48 hours to ensure good adhesion of the silicone coat to coat.

PONDING WATER:

Ecology Roof Systems' Warranties do not cover damage due to ponding water. The National Roofing Contractors Association considers ponding water on any roof unacceptable. (See the NRCA Roofing and Waterproofing Manual).

Please consult Ecology Roof Systems' Technical Department for any specific questions regarding the application of this product.

FLAMMABILITY CHARACTERISTICS:

Ecology Roof Systems' Silicone 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 Ecology Roof Systems or refer to the UL directory for specific information.

PHYSICAL PROPERTIES:

Tensile Strength	500 PSI @ 75°F (24°C)	ASTM D-412
Elongation	150% @ 75°F (24°C)	ASTM D-412
Reflectivity (White)	84%	C-1549
Emissivity	.85	C-1371
Permeability	3.9	ASTM E-96, Procedure B
Tensile, set at 100% Elongation	Nil	
Temperature Stability Range	-80°F to 350°F (-37°C to 177°C)	
Water Absorption	0.1 weight % after two weeks at 75°F (24°C)	ASTM D-471
Weathering/UV Resistance	No degradation after 8,760 hours	ASTM G-53
Specific Gravity	1.23 at 77°F (25°C)	
Tack Free Time	1 hour	
VOG	<250 Grams/Liter	
Durameter Hardness	50 ± 5 points (Shore A)	
Solids Content By Weight	80% ± 2	ASTM D-1644
Solids Content By Volume	69% ± 2	ASTM D-2697
Maximum Continuous Service Temperature	185°F (85°C)	
Flash Point	>105°F	ASTM D-93
Cure Time	2-8 Hours, depending on temperature	
Drying Time	1 hour @ 77°F (25°C)	
Shelf Life	Unopened Containers: 6 months when stored between 35°F and 75°F (1.7°C – 24°C)	

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