

MIDSUN GROUP

SILPROCOAT

CORROSION PROTECTION



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Midsun Silprocoat RTV Coating

Corrosion Protection Silicone Coating

Why?

Midsun Silprocoat is a one part silicone elastomer coating. Silicone elastomer coatings are well known for their excellent chemical and weathering resistance. Combined with good adhesion characteristics, they provide an ideal coating for lead paint encapsulation and corrosion protection of power system apparatuses, metal hardware and structures, oil and gas storage tanks, pipes and metal barriers. Midsun Silprocoat is designed for protecting a wide range of substrates from the effects of moisture and weathering. It is an ideal coating to use in extreme harsh environments such as coastal, industrial, and desert areas.

Midsun Silprocoat RTV Coating has proven superiority over:

- Epoxy systems that become embrittled, chalk and flake.
- Alkyds and modified silicone alkyds that peel, chalk and fade.
- Two part systems with indeterminate pot lives and complicated mixing.
- High cost encapsulating systems in asbestos and lead paint abatement.
- Zinc rich coatings that are difficult to field apply, mud, crack and need top coats.

Midsun Silprocoat room temperature vulcanizing (RTV) silicone rubber coating on metal surfaces performs by virtue of its water repellency and excellent adhesion to unprimed and primed metal surfaces. Because the coating is highly hydrophobic, corrosive elements cannot penetrate through the silicone coating barrier into the metal surface.

This coating can eliminate or reduce:

- Environmental concerns of lead paint.
- Galvanic corrosion from salt spray and chemical environments.
- Oil and grease contamination, millscale, rust and graphitization.



Above - Before Photo

Below - After Photo



Application

The surface to be coated must be thoroughly cleaned. In most instances, the surface only requires a high pressure water wash. Tightly bonded rust does not need to be removed, but depending on the corrosion present, solvent cleaning (SSPC-SP1), hand tool cleaning (SSPC-SP2), power tool cleaning (SSPC-SP3) or commercial blasting (SSPC-SP6) may need to be done. Please contact your Midsun Group representative for the recommended surface preparation.

Methods of coating insulators include brushing, rolling, and spraying. When a small surface needs to be coated, coating by aerosol can, brush or roller is the recommended method.

Usually one or two coats is sufficient to obtain the recommended minimum thickness of 10 mil (0.010 inches).

When coating a large structure, spraying is the recommended approach. Spray equipment varies considerably in design and depending on the equipment available, two or three coats may be necessary to obtain the desired thickness.

Each coat can be applied as soon as the previous coat becomes tacky. This can be anywhere up to 15 minutes depending on the ambient temperature and humidity. The liquid will dry in approximately 45 minutes and reaches complete cure in several hours.

Colors

Midsun Silprocoat comes in white and gray.

Packaging

Midsun Silprocoat is supplied in 7 ounce aerosol cans, 1 gallon cans, and 5 gallon pails.

Storage

Midsun Silprocoat stored in original unopened container at or below 32°C (90°F) has a shelf life of 6 months from date of shipment.

Safety Precautions

Midsun Silprocoat uses a neutral cure system, so no objectionable byproduct fumes are evolved during application. Adequate ventilation should be provided with extensive use of this coating. On direct contact, uncured sealant may irritate eyes. Flush with water and call a physician. See Safety Data Sheet.

Warranty Statement

The product is warranted to meet its specifications. In no event shall Midsun be liable for incidental or consequential damages. Except as expressly stipulated any liability, expressed or implied, is limited to the stated selling price of any defective goods.



Typical Properties

Type	One-part, RTV	Water Vapor Pressure, perms	2.9
Appearance	Thick Paint	Cured-at standard conditions* for 7 days	
Specific Gravity	1.25	Durometer Hardness (ASTM D2240, Shore A)	50 points
Viscosity (at 25°C)	6500 CPS	Tensile Strength (ASTM D412)	33 Kg/cm ² (480 PSI)
Application Temperature Range	-18 to 50°C (0 to 120°F)	Elongation at break (ASTM D412)	170%
Application Rate (10 mil thickness)	182 ft ² /US gal	Tear Resistance (ASTM D624, Die B)	6 kN/m (34 ppi)
Cure Method	Oxime, Moisture Cure	Temperature Stability Range	-57 to 160°C (-70 to 320°F)
Skin-over time at standard conditions*, min	20 minutes	Salt Fog Exposure (1350 hours)	No Corrosion
Cure time standard conditions*	4 hours	Weatherometer, 5000 hours	No Degradation

* Standard conditions are 25°C (77°F) and 50% relative humidity

Photo Gallery

Photos of silprocoat application. These applications were completed by our in house OSHA certified applicators. To view all of our before & after photos, visit our website at: <http://midsungroup.com/photo-gallery/>



Above - Before Photo



Below - After Photo



Above - Before Photo



ABOVE - Left - Before Picture

ABOVE - Right - After Picture



BELOW - Pipeline adjacent to a dam, coated with Midsun Silprocoat



Company Profile

Organized in 1992, Midsun has experienced a steady growth each year to date. Our goal every year has been simple; to become the very best product and service resource for the power utility, telecommunications, and manufacturing industries. Within the relatively narrow niche that is our business focus, we strive to excel in terms of product, services, price, performance, and delivery.

We provide utilities worldwide with services and products which increase reliability and save utility companies millions of repair dollars. Midsun Group, Inc. not only manufactures a line of no outage products known as E/ Products, but also provides turnkey installations with a no outage warranty, hands on demonstrations and training, and formal technical lectures.

Midsun offers a level of personal service that is simply unmatched by the “big” suppliers. If you have ever contacted a “big” company for customer service, application contracting, or technical support, you were probably treated as a client with a dollar amount attached. Not as Midsun; because of our small and knowledgeable staff we are able to provide you with professionalism, detailed descriptions of our product line, courtesy, diligence, quality, and immediate mobilization.

If we do not have what you want we can get it for you. If what you want does not exist we will find a way to create it. Midsun can design custom products to meet your specific needs. We own the patents on many of the unique products that we distribute and we enjoy the challenge of finding unique and cost effective solutions for our customers.

Additional Midsun Group Services

Turnkey Live Line Application

High Voltage Insulator Coating

Animal Mitigation

Silicone Products

Paintable Insulation

Custom Cover Design



TURNKEY APPLICATION

Our diligent applicators will ensure that our products are applied at an optimal thickness and in a safe manner.

Midsun can mobilize a crew very quickly, we offer turnkey application for:

- Midsun 570™ High Voltage Insulator Coating
- Midsun 570™ Energized (HVIC)
- Midsun Silprocoat
- Midsun 587 Paintable Insulation
- Energized Cleaning Service
- Stopaq® Corrosion Healing Tape
- Animal Mitigation Products

By choosing our turnkey application, you will experience a stress-free service. Our seasoned employees will make sure that the application is completed correctly and efficiently.



To learn about our newest products & latest application work, follow us on:



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