

# Midsun Silprocoat™ RTV Coating

*Unparalleled Corrosion Protection For Long Term Service*

## Why?

Silicone elastomers are well-known for their excellent chemical resistance. Combined with good adhesion characteristics, they provide an ideal coating material for lead paint encapsulation and corrosion protection of power system apparatus, metal hardware and structures, oil and gas storage tanks, pipes and transport system, locomotive and automobile bridges, abutments, roofs and metal barriers.

## Use Midsun Silprocoat™

Silicone Coating to protect metal for flyash, salt spray and chemical fumes.

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.
- Zinc rich coatings that are difficult to field apply, mud crack and need top coats.
- High cost encapsulating systems in asbestos and lead paint abatement
- 2 part systems with indeterminate pot lives and complicated mixing.

## Midsun Silprocoat™

Product and application is available from:



P.O. BOX 864 • 135 Redstone Street  
Southington, Connecticut 06489 USA  
Telephone: 860-378-0100 • Fax: 860-378-0103



*Silprocoat™ RTV coating on one of the largest water pipes in North America. This pipe, previously painted with lead based paints was coated with Silprocoat™ completely encapsulating the lead and providing a formidable barrier against corrosion.*



*Because Midsun Silprocoat™ RTV Coating is highly water repellent, with built in adhesion promoters, it prevents electrolytic galvanic reactions from occurring.*

**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. The 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.

**Midsun Silprocoat™** is a one-component system that requires no mixing and is ready for use after stirring. The liquid cures into a flexible silicone elastomer coating that resists ultraviolet rays, ozone and electrical discharges.

**Midsun Silprocoat™** is designed for protecting a wide range of substrates from the effects of moisture and weathering. The coating is particularly effective as a protective coating over new or existing metal roofs, fiberglass surfaces, all hot or ambient storage tanks, and structures made from various materials.

#### APPLICATION INFORMATION

The surface to be coated must be thoroughly cleaned. In most instances, the surface need only be high pressure water washed. 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 call the Midsun group for the recommended surface preparation.

Methods of coating 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 a large structure is to be coated, 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 surface on coated metal dries to the touch in approximately 45 minutes and reaches complete cure in several hours.

#### COLORS

**Midsun Silprocoat™** standard color is gray. It is also available in black, white and earth tone colors.

#### PACKAGING

**Midsun Silprocoat™** is supplied in 10 ounce aerosol cans, 1 gallon cans, 5 gallon pails and 55 gallon drums.

#### STORAGE

**Midsun Silprocoat™** when stored in original unopened container at or below 32C (90F) 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 Material Safety Data Sheet available on this product.

#### TYPICAL PROPERTIES

SKU# 579

Uncured

Type	One-part, RTV
Appearance	Thick Paint
Solid Content	Weight 76% Volume 68%
Specific Gravity	1.2
Viscosity cP,	6500+/-2500
Sag (Leneta Anti-Sag Meter)	35+/-10
Application Temperature Range, °C (°F)	-18 to 50 (0 to 120)
Application Rate (10 mil thickness)	182 ft²/US gal
Cure Method	Oxime, moisture cure
Skin-over time at standard conditions*, min	20
Cure time standard conditions*, hour	4
Flash Point, °C (°F)	42 (107)
Water Vapor Pressure, perms	2.9
Cured - at standard conditions* for 7 days	
Durometer Hardness (ASTM D2240, Shore A), points	35
Tensile Strength (ASTM D412), kg/cm² (psi)	18 (250)
Elongation at break (ASTM D412), %	170
Tear Resistance (ASTM D624, Die B), kN/m (ppi)	6 (34)
Temperature Stability Range °C (°F)	-57 to 160 (-70 to 320)
Salt Fog Exposure (1350 hours)	No corrosion
Weatherometer, 5000 hours	No degradation

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

#### 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.

Data is subject to change without notice and it is therefore recommended that this information not be used for specification writing. For additional information on specific applications, contact the Midsun Group, Inc.



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