

Si-COAT™ 579

Anti-Corrosion Coating

quality



research



innovation

- ◆ Supplied ready to use with no mixing of chemicals in the field
- ◆ One-part, room temperature vulcanizing (RTV), elastomeric silicone rubber
- ◆ Uniquely designed to resist rust "creep"
- ◆ Simple application – just spray, brush, or roll on
- ◆ Unparalleled resistance against UV, ozone and normal weathering
- ◆ Superior adhesive properties

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Typical Applications

Si-COAT™ 579 is designed for superior, corrosion protection. Its resistance to UV, ozone and weathering along with its enhanced adhesion properties makes it an ideal corrosion protection for metal structures, tanks, buildings, and roofs. Si-COAT™ 579 revolutionizes the field of coatings by eliminating the problem of rust "creep" underneath the surface and eventual flaking of the coating.

Si-COAT™ 579 achieves excellent adhesion to unprimed metal surfaces. Si-COAT™ 579 is best applied to new metal with a dry surface. Si-COAT™ 579 can also be used to coat older rusting structures to significantly extend the structures life and to enhance its appearance.

Surfaces must be thoroughly cleaned of all loose rust and oil. Sandblasting is the recommended method of cleaning. Oil must be removed by hand wiping with solvent. All surfaces must be dry.

Recommended application method is airless spray with two coats each of 10 mil thickness. Each coat can be applied as soon as the previous coat is tacky.

Packaging

Si-COAT™ 579 is available in 3.8L (1 US gallon) cans, 19L (5 US gallon) metal pails and 189L (50 US gallon) drums.

Storage

Si-COAT™ 579 when 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

Adequate ventilation should be provided. On direct contact, uncured coating may irritate eyes. Flush well with water and call a physician. See Material Safety Data Sheet for more information.

Typical Properties

Uncured

Type	One-part RTV
Appearance	Thick Paint
Solids Content	76% by wt. (68% by vol.)
Specific Gravity	1.2
Viscosity	6,500 ± 1,500 cP
Sag (Leneta Anti-Sag Meter)	35±10
Application Temperature Range	-18°C to 50°C (0°F to 120°F)
Coverage (20 mil thickness)	53 ft ² /US gal
Cure System	Oxime, Moisture Cure
Skin-over Time at Standard Conditions †	40 min.
Cure Time at Standard Conditions †	24 hr.
Flash Point	42°C (107°F)
Water Vapor Pressure	2.9 perms

Cured

At Standard Conditions † for 7 Days

Durometer Hardness (ASTM D2240, Shore A)	35 points
Tensile Strength (ASTM D412)	18 kg/cm ² (250 psi)
Elongation at Break (ASTM D412)	150%
Tear Resistance (ASTM D624, Die B)	6 kN/m (34 ppi)
Temperature Stability	-57°C to 160°C (-70°F to 320°F)
Salt Fog Exposure (2550 hours)	No Corrosion
Thermal Conductivity	5.0×10 ⁻⁴ cal/sec.cm ² .(°C/cm)
Ultraviolet Accelerated Weathering Test (ASTM G53 Series, 500 hours)	Pass

†Standard Conditions are 25°C (77°F) and 50% relative humidity

Warranty Statement

CSL warrants that this product will meet its specifications. CSL shall in no event be liable for incidental or consequential damages. Except as expressly stipulated, CSL's 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, please contact the manufacturer.



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Si-COAT™ 579

Anti-Corrosion Coating

Why should *you* use Si-COAT™ 579?

Competitive Advantages of Si-COAT™ 579 Anti-Corrosion Coating Over Conventional Coatings

Si-COAT™ 579 is a one-part silicone rubber protective coating for use as a protection against corrosion. The fact that it is a single component silicone product imparts many attributes which make it a far more favourable coating compared to many conventional products:

- Mixing of chemicals at the job site is not required, nor are plural pumping systems as with many two-component epoxies. This **reduces task complexity and cost of application.**
- Being a silicone product, Si-COAT™ 579 displays **superior resistance to ultraviolet (UV) light (the primary source of material degradation), ozone, ordinary chemicals and normal weathering.** Competitive products are either not tolerant to long term UV light and chemical exposure, or use costly UV blockers.
- Si-COAT™ 579 has built-in adhesion promoters so that **primers are not necessary** on properly prepared surfaces of almost all substrates (polycarbonate substrates require CSL clearance). As a result adhesion to metal surfaces is excellent.
- If the Si-COAT™ 579 surface is scratched, corrosion propagation is limited to only the scratch line. That is to say, **corrosion will not migrate under the silicone surface.** Conventional coatings will not stand such abuse and corrosion migration will cause the coating to flake off.
- Being a silicone rubber product, Si-COAT™ 579's elasticity factor ensures very **efficient tolerance to thermal and vibrational expansion.** This also applies to mechanical deformation due to various reasons. Normal alkyd paints and epoxies will readily crack under these conditions and hence propagate corrosion.
- Since Si-COAT™ 579 has excellent adhesion on almost all surfaces, existing installations coated with **lead-based paints or asbestos insulation are easily encapsulated by Si-COAT™ 579.** This avoids expensive sandblasting and containment for the removal of the old paint. A typical case history on a large diameter pipe has shown **70% savings on overall project cost.**
- A scratched surface of Si-COAT™ 579 can be quickly repaired by simply brushing the damaged area with fresh product.
- Si-COAT™ 579 coated surfaces have **yet undetermined longevity.** Field experience thus far has shown over ten years of life under adverse conditions of coastal region salt fog and weathering.



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