

# Si-COAT® 579 | Anti-Corrosion Protective Coating



Si-COAT® 579 is a One Coat, Self-Priming, Anti-Corrosion Coating Available in 40+ Colors.

## Product Description

Si-COAT 579 is a single component, moisture cure, room temperature vulcanizing (RTV) coating that provides long-lasting protection from corrosion in above grade applications in both new and retrofit locations. Typical applications include structural steel, bridges, machinery and equipment, areas with heavy corrosion, tank exteriors, metal roofs, cladding, etc. Si-COAT is ideal where coverage is essential and high levels of protection, adhesion, elasticity and longevity are desired.

## Superior Performance

Si-COAT's superior adhesion technology stems from the primary chemical bonds it forms with the metal substrate surface. This adhesion enables the coating to be applied without extensive surface preparation - no sandblasting or ultra-high-pressure water blasting is necessary to prep the surface to be coated. The coating may even be applied over existing surface rust and with its superior elastic properties will inhibit rust creep and will not chip or peel. Si-COAT's elasticity properties also allow it to remain flexible and stay intact, without cracking or tearing, through thermal expansion and contraction of the substrate.

On top of these benefits, polysiloxane technology is very durable; it is resistant to UV exposure, abrasion and many chemicals giving it a long useful life, adding to the longevity of the substrate.

Si-COAT 579 is easily applied in one step, leaving less chance for applicator error. The result is an even uniform protective coating that will bridge any hairline surface cracks, prevent corrosion and maintain its aesthetic qualities for a long time.



Si-COAT 579 coated over a pre-rusted panel then scored - exhibiting no signs of rust creep or pin-hole rusting after 3 years exposure to Florida sun and salt-spray conditions facing due south at a 45° angle.

## Cost Effective

The single coat system of Si-COAT 579 reduces labor costs and installation time. The total material costs are minimal, since only one coat is needed and often a coating thickness (DFT) of 8 mils (200  $\mu$ ) is adequate protection. The long life of Si-COAT 579 also adds to its value by lowering lifecycle cost, since the coating lasts for many years without the need for reapplication.

The product can be applied using brush, roller or airless sprayer equipment allowing you to match the desired installation method to the requirements of the job. The cost savings are amplified by minimal site preparation required before application; again saving time, labor, and material costs.

## Benefits

- **Easy application** - self priming single coat with minimal surface preparation (no sand or ultra high pressure water blasting required) - less labor cost.
- **Advanced performance** - primary bonds form with the substrate increasing adhesion.
- **Cost effective** - apply less product (8-12 mils DFT) for superior protection.
- **180% Elasticity** - allow for thermal expansion and contraction of the substrate and helps to eliminate rust creep.
- **Long lasting** - durable UV and chemical resistant.
- **Polysiloxane technology** - bridge hairline surface cracks.
- **Aesthetically pleasing** - matte finish available in 40+ colors.
- **Quick return to service** .
- **Environmentally Responsible** - VOC compliant and has a long lifespan.
- **5 Year Limited Warranty**.



[www.csilicones.com](http://www.csilicones.com)

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## Packaging

Si-COAT® 579 is available in 1 US gal (3.8L) and 5 US gal (18.9L), containers.

## Shelf Life

When stored in the original unopened container at or below 90°F (32°C) Si-COAT® 579 has a shelf life of 12 months.

## Application Temperature Range

41 to 140°F (5 to 60°C) – ambient  
41 to 266°F (5 to 130°C) – substrate

## Safety Precautions

This product is intended for use only by professional applicators in industrial situations in accordance with the advice given in this document, the Technical Data Sheet (TDS), the Material Safety Data Sheet (MSDS) and the container(s). Si-COAT® 579 should not be used without reference to the TDS and MSDS that CSL Silicones Inc. provides to its customers.

All work involving the application and use of this product should be performed in compliance with all relevant national Health, Safety & Environmental standards and regulations.

When applying in confined spaces ensure adequate ventilation and/or respiratory equipment.

## Physical Properties

(typical properties - values not to be used as specifications)

UNCURED	
Appearance	Thick Paint
Viscosity	4,000 ± 1,000cP
Sag	30 ± 10 (Leneta Anti-Sag Meter)
Cure System	Neutral, moisture cure
CURED At standard conditions [77°F (25°C) and 50% relative humidity] for 7 days	
Hardness	35 (ASTM D2240, Shore A)
Tensile Strength	240 psi (17kg/cm <sup>2</sup> ) (ASTM D412)
Elongation at Break	180% (ASTM D412)
Temperature Stability	Continuous: -70 to 480°F (-57 to 250°C)

## System Compatibility

Although no primer is needed prior to applying Si-COAT 579, it is recommended to do a quick adhesion test prior to application. If necessary, the primers CSL-941™ and CSL-944™ are suitable for use with Si-COAT 579 and will enhance adhesion on complicated surfaces.

## Theoretical Coverage

DFT	8.0 mils (200 μ)	10.0 mils (254 μ)	15.0 mils (381 μ)
sq. ft/US gal	138.4	110.8	73.8
sq.m/L	3.4	2.7	1.8







## Dry Time

At standard conditions [77°F (25°C) and 50% relative humidity – 10 mils WFT]

Skin-over Time	30 minutes
Tack-free Time	60 minutes
Cure Through	4 to 6 hours

## Colors

Si-COAT 579 is available for quick shipping in any of our standard colors.

Standard Stocked Colors Si-COAT® 579			
Black		White (Fed Std #17875)	
Florida Blue		Middlestone Beige (Fed Std #33531)	
Light Grey (Ansi #70)		Darker Grey	

Please call for a more accurate description of these colors. All stocked colors have passed 5000 hours QUV testing.

40+ colors (that have passed the 5000 hour QUV testing) are also readily available, with a longer lead time.

Contact CSL Silicones, Customer Service for available colors and program details.



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