

# Si-COAT® CM™ SYSTEM

CSL® 979 Corrosion Maintenance Primer  
Si-COAT® 579CM™ Corrosion Maintenance Coating

Independently Validated to ASTM & ISO Standards

## PROVEN LONG-TERM PROTECTION FOR STEEL ASSETS

The Si-COAT® Corrosion Maintenance System delivers C5 High corrosion protection for steel structures operating in aggressive industrial, marine, and coastal environments. Engineered for long-term atmospheric exposure, the system combines the corrosion-inhibiting performance of CSL® 979 Corrosion Maintenance Primer with the exceptional durability of the Si-COAT® 579CM™ Corrosion Maintenance Silicone Elastomeric Coating.

The result is a robust, field-proven coating system designed to protect critical assets while reducing long-term maintenance demands.

Total System Dry Film Thickness (DFT): Primer 150 µm + Topcoat 150 µm = 300µm



# WHY CHOOSE THE CSL CORROSION MAINTENANCE SYSTEM?

## EXCELLENT CORROSION PROTECTION

- Independently validated for C5 High corrosivity environments in accordance with ISO 12944-6:2018
- Proven resistance to salt exposure, humidity, UV radiation, and extreme weather conditions
- Maintains protective performance at scribe lines and cut edges

## SUPERIOR ADHESION & BARRIER PERFORMANCE

- CSL® 979 primer enhances substrate wetting and mechanical bonding
- Silicone topcoat forms a hydrophobic, UV-stable barrier protection
- Achieved ASTM D3359 adhesion rating: 5A (Pass)

## LONG-TERM DURABILITY

- No blistering, rusting, cracking, or flaking observed across all validation tests
- High abrasion resistance suitable for demanding industrial environments
- Strong electrochemical stability confirmed by EIS testing

## LOWER LIFECYCLE COST

- Reduced inspection and maintenance frequency
- Extended service life in aggressive exposure conditions
- Ideal solution for asset owners seeking long-term reliability and performance

## SYSTEM COMPONENTS

### CSL® 979 Corrosion Maintenance Primer

- 2K Epoxy Primer
- Excellent wetting and penetration
- Enhances system adhesion and corrosion resistance
- Well-suited for maintenance and recoating applications

### Si-COAT® 579CM™ Silicone Coating

- Topcoat for extreme UV and weather exposure
- Hydrophobic surface minimizes moisture retention
- Outstanding color stability
- Flexible film resists cracking caused by thermal cycling

## RECOMMENDED APPLICATIONS

- Industrial plants, refineries, and processing facilities
- Bridges, tanks, and pipelines
- Coastal and high-humidity environments
- Maintenance of aged or previously coated steel
- Infrastructure requiring long-term corrosion protection
- Marine and offshore structures



## PERFORMANCE VALIDATION & TEST RESULTS (Independent Third-Party Laboratory Testing)

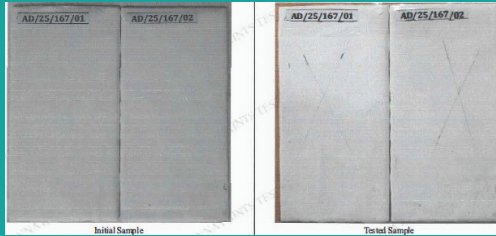
All testing performed on CSL® 979 Primer (150 µm) & Si-COAT® 579CM™ Silicone Coating (150 µm)  
Total System DFT: 300 µm

### ASTM D3359-23 — Adhesion (Cross-Cut & Tape)

Result: Pass — Rating 5A

No coating removal

Excellent adhesion before and after aging

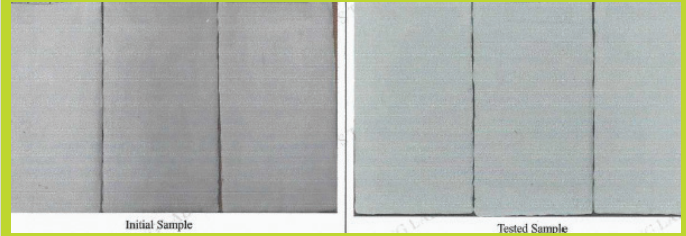


### ASTM D2247-15 — Humidity Resistance

1000 hrs at 38°C

Result: Pass

No blistering, rusting, cracking, or flaking  
Confirms effective moisture barrier performance



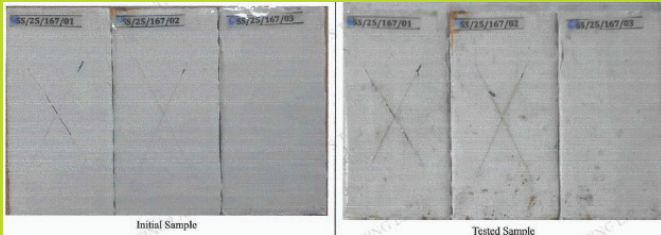
### ASTM B117-19 — Salt Spray Resistance 2500 hrs, 5% NaCl

Result: Pass

No blistering, rusting, cracking, or flaking

Scribe line integrity maintained

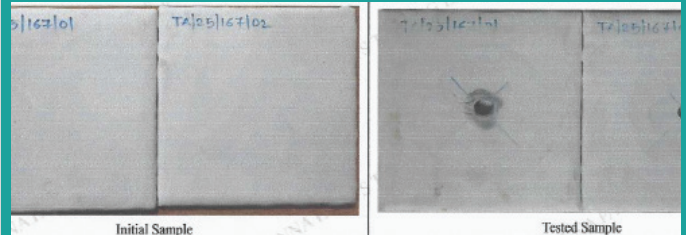
Suitable for marine and chloride-rich environments



### ASTM D4060-25 — Taber Abrasion Resistance 1000 cycles, 1 kg load

Result: Pass

Low weight loss confirms mechanical durability



### ISO 12944-6:2018 — Cyclic Corrosion Testing 1680 hrs / 10 cycles

Result: Fully compliant with C5 High  
Passed QUV, salt spray, condensation,  
and low-temperature cycling

No blistering, rusting, cracking, or flaking observed



### ISO 16773-2:2016 —

Electrochemical Impedance Spectroscopy (EIS)

Result: Pass

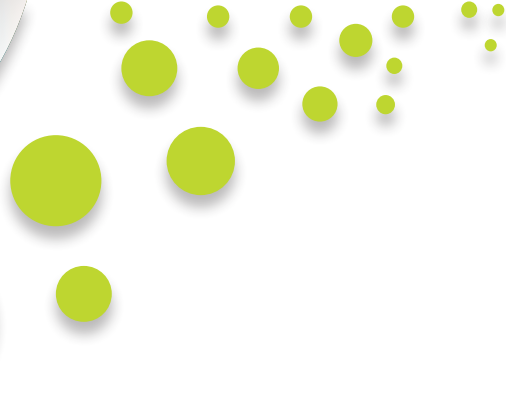
High impedance values demonstrate excellent barrier  
integrity and corrosion resistance



## THE SI-COAT® CM™ ADVANTAGE

With the CSL Corrosion Maintenance System, customers benefit from:

- Performance verified by independent, internationally recognized testing
- A durable, long-life protective coating system
- Excellent performance in the harshest environment
- Proven protection in the harshest service environments



CSL Controlled Document  
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