



## FEATURES & BENEFITS

- Excellent anticorrosive performance for severe environments
- Zinc phosphate reinforced epoxy barrier protection
- Outstanding adhesion to steel and compatible substrates
- High toughness and mechanical durability
- Resistance to salt, alkali, and dilute acid solutions
- Suitable for marine, industrial, and chemical processing environments
- Fully compatible with **Si-COAT® 579CM™** for long life corrosion maintenance systems
- Smooth, uniform finish for overcoating
- Good flexibility for maintenance and refurbishment applications

## PRODUCT DESCRIPTION

**CSL 979** Corrosion Maintenance Primer is a high performance, two component epoxy zinc phosphate primer engineered for long term protection of ferrous substrates exposed to aggressive industrial, coastal, and marine environments.

When used as part of a CSL corrosion maintenance system—including **Si-COAT® 579CM™** Corrosion Maintenance Silicone Elastomeric Coating—the system has been independently tested and validated to:

- **ASTM B117:** 2,500 hours salt spray exposure
- **ISO 12944 6:2018:** achieved C5 High corrosion protection classification after 1,680 hours / 10 cycles cyclic corrosion testing

The primer provides excellent adhesion, chemical resistance, salt spray durability, and substrate tolerance, making it suitable for maintenance, refurbishment, and new build applications.

## Recommended Applications

**CSL 979** is designed for use in corrosion maintenance and protective coating applications on a wide range of substrates and structures. Typical applications include structural steel, pipelines, and process equipment used in industrial environments.

The coating is suitable for use in chemical processing facilities, pharmaceutical plants, and general industrial installations where long-term corrosion protection is required. Additional applications include tanks, machinery, fabricated assemblies, bridges, and marine-exposed structures.

**CSL 979** can be used on both interior and exterior steel surfaces requiring durable, long-term protective performance.

## PRODUCT CHARACTERISTICS AND PRACTICAL INFORMATION

Appearance	Thin, uniform coating
Gloss	Glossy
Finish	Smooth
<b>Curing Time*</b>	
Curing Time	8-10 hours
Full Dry	10 hours
<b>Working Properties</b>	
Working Time	20-25 minutes
Pot Life	20 minutes
<b>Mixing Information</b>	
Mixing Ratio	10:1 (R:H)

## PHYSICAL PROPERTIES

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

<b>Uncured</b>	
Viscosity (Brookfield) – Resin	6,000–8,000 cps
Viscosity – Hardener	~420 cps
Viscosity – Mixed	800–1,200 cps
<b>Cured at Standard Conditions* for 7 Days</b>	
Hardness (Shore A)	77
Specific Gravity	~1.54 g/cm <sup>3</sup>
<b>Application Information</b>	
Recommended DFT	150–175 µm per coat*

\*If used in conjunction with **Si-COAT® 579CM™**, the total system DFT may be approximately 300 µm (Primer 150 µm + Top Coat 150 µm).

## COLOR

**CSL 979** is primarily available in Grey.

## SURFACE PREPARATION & CLEANLINESS

Proper surface preparation is essential to ensure long-term performance of the coating system. All substrates must be clean, dry, and free of oil, grease, salts, and other contaminants prior to application. Loose rust is removed using emery paper to achieve a smooth finish, followed by blowing the surface with compressed air or wiping with a clean, dry cloth. The anticorrosive primer is mixed thoroughly until a uniform consistency is obtained.

For steel substrates, abrasive blast cleaning to a minimum of **SSPC-SP6 / ISO 8501-1 Sa 2** is recommended. For maintenance work, power tool cleaning to **SSPC-SP3** or **SSPC-SP11** may be acceptable, depending on overall system requirements.

Galvanized steel and aluminum substrates must be free of moisture and condensation. Light mechanical abrasion using a Scotch-Brite™ pad or equivalent is recommended to promote adhesion. Avoid excessive removal of the zinc coating from galvanized surfaces.

## APPLICATION

**Mixing Ratio** (Resin : Hardener): The product is mixed at a ratio of **10:1** by weight.

**Mixing Instructions:** Each component should be pre-mixed separately prior to combining. After combining the resin and hardener, mix thoroughly until a uniform consistency is achieved. Where required by application conditions, allow for the appropriate induction time.

**Application Methods:** The primer is applied on flat areas using a short-nap roller to achieve a low dry-film thickness (DFT). Excess material is removed from the roller before application, and a cross-rolling technique is used to ensure uniform coverage. Corners, edges, weld joints, and other difficult-to-reach areas are coated by brush.

**Recommended Dry Film Thickness (DFT):** Apply at a dry film thickness of 150–175 µm per coat.

\*If used in conjunction with **Si-COAT® 579CM™**, the total system DFT may be approximately 300 µm (Primer 150 µm + Top Coat 150 µm).

## ENVIRONMENTAL CONDITIONS

For optimal performance, application should be carried out at ambient temperatures between **25°C and 40°C**. The substrate temperature must be at least **3°C above the dew point** at the time of application. Relative humidity should be **below 75%**. Application during conditions of condensation, fog, or high humidity should be avoided.

## PRECAUTIONS & HANDLING

Containers should be kept tightly sealed when not in use, as the components are moisture sensitive. This product should be used only with the recommended CSL primer and topcoat system. Mixing with non-CSL primers or incompatible coatings must be avoided.

Appropriate personal protective equipment, including gloves, respirator, and protective goggles, must be worn during handling and application. Store the product in a cool, dry, and well-ventilated area away from heat, sparks, and open flames.

## STORAGE

Shelf life is **12 months** from the date of manufacture when stored in unopened, original containers under recommended storage conditions.

## PACKAGING

The product is supplied in 1 L and 5 L kits (resin and hardener).

## WARRANTY

CSL Silicones Inc. warrants that its products 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, contact the manufacturer.



**Disclaimer**

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## Technical Data Sheet

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