

DESCRIPTION

Type CG[™] Cold Galvanize is an industrial aerosol coating for metal protection and repair. Type CG contains 90% pure zinc. When sprayed on metal it forms a zinc-rich coating that prevents rust and inhibits corrosion through sacrificial galvanic action.

PHYSICAL PROPERTIES

PROPERTY	RESULT
Appearance	Gray/Matte Finish
Density (dried)	19.9 lb/gal (2.38 g/mL)
Solids by weight	79±2%
Solids by volume	40±1%
Zinc Content	90% in Dry Film
Flash Point	-141 °F (-96.4 °C)
VOC	40.06%

APPLICATION PROPERTIES

Type CG offers on-the-job applications and is ideal as a primer or for touch up repairs.

APPLICATION PROPERTIES	RESULT
Coverage	10-15 ft ² (0.9-1.4 m ²) per can
Dry Film Thickness	1.5-3.0 mils (0.038-0.075 mm)
Weldable	Yes
Temperature Resistance	250°F (121°C) – Sustained 300°F (149°C) - Intermittent
Dry time (to handle at 70°F (21°C))	30-40 minutes
Dry time (to topcoat at 70°F (21°C))	2-3 hours

MIL SPECIFICATIONS AND CERTIFICATIONS

APPLICATION PROPERTIES	RESULT
P-26915A	Type 1 Class A primer for Steel (USAF)
P-46105	Weld through Zinc Rich Primer
DOD-21035A	Zinc Rich Galvanize Repair
Salt Fog	Pass 1,000 Hours (ASTM B117)
Humidity	Pass 500 Hours (ASTM D2247)

CATHODIC ACTION

Type CG provides corrosion protection using sacrificial, cathodic action. The zinc and the steel combine, producing a tiny electrical—cathodic--cell, which protects the steel at the expense of the zinc. When bare steel is exposed to moisture, steel is protected by the sacrificial loss of zinc in the vicinity of the exposed steel. In the immediate presence of zinc, steel will not corrode until all the zinc has been sacrificed.

BARRIER PROTECTION

Type CG provides a continuous, impervious metallic barrier that does not allow moisture to contact steel. Without direct moisture contact, there is no corrosion. Barrier life is proportional to coating thickness. **Added Note:** *Barrier protection can be extended by increasing the mil thickness of end coating. Several passes with an aerosol will extend the life of the coating.*

SURFACE PREPARATION

- **New Steel:** Surface must be dry and free of contamination. Remove all weld splatter and grind all rough welds to a smooth contour. For severe exposure (immersion, chemical, etc.) near-white blast clean per SSPC SP 10-63T. For other exposures, blast clean per SSPC SP 6-63 to a maximum profile of 1.5 mils (0.038mm).
- **Previously Painted Surfaces:** Must be free of oil, grease, and other contamination. For best results, spot blast exposed areas to be coated. Power tool brushing may be used for minor touch-up.

USAGE INSTRUCTIONS

Surface shall be dry, 5°F (3°C) above the dew point, with air temperatures greater than 50°F (10°C). Surface must be free of rust bloom. Shake can vigorously until agitator frees. Spray using light, even strokes about 18 inches (1/2 meter) from surface. Several thin coats are recommended. Allow 15 minutes drying time between coats. Final coat should dry thoroughly (up to 24 hours). To avoid clogging nozzle, invert can and spray until only air escapes.

LIMITATIONS

Not recommended for immersion in acids or alkalis. This product is not recommended for continuous immersion in fresh or salt water without a topcoat. Avoid total immersion in solvents. This primer must be top-coated for atmospheric service other than pH range of 6.5 - 8.

TOPCOATS

Catalyzed epoxies, coal tar epoxy, vinyl, phenolics, acrylics, chlorinated rubbers, and urethanes. NOTE: DO NOT USE ALKYD BASED TOPCOATS.

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IMPORTANT NOTICE: The statements here are made in good faith based on tests and observations we believe to be reliable. However, the completeness and accuracy of the information is not guaranteed. Before using, the end-user should conduct whatever evaluations are necessary to determine that the product is suitable for the intended use.

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