

Selection & Specification Data

Generic Type	Zinc-rich chlorinated rubber
Description	A ready mixed single component chlorinated rubber, zinc-rich coating. May be described as a cold galvanizing compound since it prevents corrosion of the steel substrate in a similar manner as hot dip galvanizing. Recommended use as a primer or a single coat finish on steel that is subject to atmospheric exposure. Widely used as a repair material for galvanized steel that has been damaged during transit or erection.
Features	<ul style="list-style-type: none"> ▪ Multiple coats may be employed with no danger of "mudcracking" ▪ Ideal "cold galvanizing" compound ▪ Excellent for touch up of galvanized surfaces
Color	Metallic Gray (0700) only
Finish	Matte
Primers	May be applied over most inorganic zincs, zinc-rich epoxies or others as recommended by Carboline Technical Service.
Topcoats	May be topcoated with a variety of epoxies, acrylics or polyurethane coatings.
Dry Film Thickness	3.0-4.0 mils (75-100 microns) per coat. Dry film thickness in excess of 8.0 mils (200 microns) per coat is not recommended.
Solids Content	By Volume: 38% ± 2%
Zinc Content	By Weight: 90% ± 2% in the dry film
Theoretical Coverage Rate	610 mil ft ² (14.9 m ² /l at 25 microns) 203 ft ² at 3.0 mils (5.0 m ² /l at 75 microns) Allow for loss in mixing and application
VOC Values	As Supplied: 4.5 lbs./gal (540 g/l) Per EPA Method 24: 4.6 lbs./gal (555 g/l) Thinned: 13 oz/gal w/ #10: 4.85 lbs./gal (585 g/l) These are nominal values.
Dry Temp. Resistance	Continuous: 300°F (149°C) Non-Continuous: 325°F (167°C)
Limitations	Prolonged exposure to acids, alkalies or solvents without suitable topcoat.

Substrates & Surface Preparation

General	Surfaces must be clean and dry. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating in accordance with SSPC-SP1.
Steel	Non-Immersion: SSPC-SP6 with a 1.0-3.0 mil (25-75 micron) blast profile.
Galvanized Steel	To repair damaged areas of new galvanized surfaces, prepare as described for "Steel Surfaces." To repair old galvanized surfaces, prepare all areas of rusting or pitting by abrasive blasting per SSPC-SP6 or using power tools in accordance with SSPC-SP11.

Typical Chemical Resistance

Exposure	Immersion	Fumes	Splash & Spillage
Acids	NR	Fair	Poor
Alkalies	NR	Fair	Poor
Solvents	NR	Fair	Poor
Salt	Excellent	Excellent	Very Good
Water	Excellent	Excellent	Excellent

NR = Not Recommended

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Application Equipment

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

General Guidelines:

Spray Application (General) The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.

Conventional Spray Pressure pot equipped with dual regulators, air powered agitator, 3/8" I.D. minimum material hose, .070" I.D. fluid tip and appropriate air cap.

Airless Spray

Pump Ratio:	30:1 (min.)*
GPM Output:	3.0 (min.)
Material Hose:	3/8" I.D. (min.)
Tip Size:	.019-.023"
Output PSI:	2500-3000
Filter Size:	60 mesh

*Teflon packings are recommended and available from the pump manufacturer.

Brush Use a high quality medium bristle brush and avoid rebrushing.

Roller Not recommended for use with a roller.

Mixing & Thinning

Mixing Power mix to a smooth consistency prior to using.

Thinning May be thinned up to 13 oz/gal (15%) with Thinner #10. Use of thinners other than those supplied or recommended by Carboline may adversely affect product performance and void product warranty, whether expressed or implied.

Cleanup & Safety

Cleanup Use Thinner #2 or xylol. In case of spillage, absorb and dispose of in accordance with local applicable regulations.

Safety Read and follow all caution statements on this product data sheet and on the MSDS for this product. Employ normal workmanlike safety precautions. Hypersensitive persons should wear protective clothing, gloves and use protective cream on face, hands and all exposed areas.

Ventilation When used in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion limit for the solvents used. In addition to ensuring proper ventilation, appropriate respirators must be used by all application personnel.

Caution This product contains flammable solvents. Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workmen should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

Application Conditions

Condition	Material	Surface	Ambient	Humidity
Normal	60°-90°F (16°-32°C)	60°-90°F (16°-32°C)	60°-90°F (16°-32°C)	0-75%
Minimum	40°F (4°C)	35°F (2°C)	40°F (4°C)	0%
Maximum	110°F (43°C)	130°F (54°C)	120°F (49°C)	85%

This product simply requires the substrate temperature to be above the dew point. Condensation due to substrate temperatures below the dew point can cause flash rusting on prepared steel. Special application techniques may be required above or below normal application conditions. **Note:** Avoid application over visible droplets, puddles of water or ice formations. If applied over moisture, the coating may blister, bubble and/or exhibit poor adhesion.

Curing Schedule

Surface Temp. & 50% Relative Humidity	Dry to Topcoat
45°F (7°C)	36 Hours
60°F (16°C)	12 Hours
75°F (24°C)	6 Hours
90°F (32°C)	3 Hours
105°F (41°C)	2 hours

These times are based on a 3.0 mil (75 micron) dry film thickness. Higher film thickness, insufficient ventilation or cooler temperatures will require longer cure times and could result in solvent entrapment and premature failure.

Packaging, Handling & Storage

Shipping Weight (Approximate) Quarts
6 lbs. (2.7 kg)

Flash Point (Setaflash) 87°F (31°C)

Storage (General) Store Indoors.

Storage Temperature & Humidity 40° - 110°F (4°-43°C).
0-90% Relative Humidity

Shelf Life 24 months at 75°F (24°C)

***Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.**

Distributed by:



SINCE 1926

SOMAY PRODUCTS, INC.

4301 N.W. 35th Avenue

Miami, FL 33142-4382

Tel.: (305) 633-6333

Fax: (305) 638-5524

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