# product data



Steel

#### **Selection & Specification Data**

Generic Type Waterborne Acrylic

**Description** Surface tolerant direct-to-metal primer with

excellent corrosion resistant properties, resistance to flash rusting and suitability for

SPPC-SP2 and SP3-cleaned steel.

Features • Single component

Resistant to flash rusting

Outstanding corrosion protection

Low odor, low VOC

Colors Salmon (0400); Buff (A229)

Finish Eggshell

**Primers** Self-priming. May be applied over Inorganic

Zinc primers and other tightly adhering coatings. A mist coat may be required to minimize bubbling over Inorganic Zinc

primers.

**Topcoats** Normally topcoated with Carbocrylic 3359

**Dry Film** 2.0-3.0 mils (50-75 microns)

**Thickness** Do not exceed 3.0 mils in a single coat

**Solids** By Volume:  $37\% \pm 2\%$ 

Content

Theoretical 593 mil

Coverage Rate 593 mil ft² (14.5 m²/l at 25 microns) Allow for loss in mixing and application.

**VOC Values** As supplied: 0.56 lbs/gal (67 g/l)

w/6 oz #102: 0.89 lbs/gal (107 g/l)
w/12 oz #102: 1.18 lbs/gal (141 g/l)
EPA Method 24: 1.28 lbs/gal (153 g/l)
(Calculated minus water and exempt solvents)
w/6 oz #102: 1.89 lbs/gal (226 g/l)
w/12 oz #102: 2.40 lbs/gal (288 g/l)
These are nominal values and may vary

slightly with color.

**Dry Temp.** Continuous: 235°F (113°C) **Resistance** Non-Continuous: 325°F (163°C)

Non-Continuous: 325°F (163°C) Slight discoloration and loss of gloss is

observed above 200°F (93°).

Limitations Apply and cure at temperatures of 50°F

and above for 24 hours.

#### **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.

**Steel** SSPC-SP6 with a 1.0-2.0 mil (25-50

micron) surface profile for maximum protection. SSPC-SP2 or SP3 as minimum

requirement.

Galvanized SSPC-SP1. Lightly abrade to remove

sheen and surface deposits.

#### **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) Pre-rinse equipment with undiluted Carboline Surface Cleaner 3 followed by clean potable water before spraying. 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, ½" I.D. minimum material hose, .086" I.D. fluid tip and appropriate air cap.

**Airless Spray** 

Pump Ratio: 30:1 (min.)\*

Pump Ratio: 45:1 for two or more guns

GPM Output: 3.0 (min.)

Material Hose: 3/8" I.D. (min.)

Tip Size: .017-.019"

Output PSI: 1800-2200

Filter Size: 60 mesh

\*Teflon packings are recommended and available from the pump manufacturer. For ease of application, remove the pickup tube and immerse the lower unit directly into the material.

Brush & Roller (General) Multiple coats may be required to achieve desired appearance, hiding and recommended dry film thickness. Avoid excessive re-brushing

or re-rolling.

**Brush** Use a synthetic bristle brush.

Roller Use a short-nap synthetic roller cover with

phenolic core.

#### **Mixing & Thinning**

Mixing Power mix until uniform in consistency. Avoid excessive air entrapment.

Thinning

May be thinned up to 6 oz/gal (5%) with clean, potable water. Areas with cool substrate and warm ambient conditions can experience a surface skinning and separation. Under these conditions, the use of 6-12 oz/gal (5-10%) of Additive 102 assists in the proper film formation at the recommended dry film thickness, without surface skinning. 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 clean potable water followed with suitable

solvent to dry equipment. 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

product. Employ normal workmanike safety precautions. Use adequate ventilation and wear gloves or use protective cream on face and hands if hypersensitive. Keep container closed

when not in use.

#### **Application Conditions**

Condition	Material	Surface	Ambient	Humidity	
Normal	60°-90°F	65°-85°F	65°-90°F	10-80%	
	(16°-32°C)	(18°-29°C)	(18°-32°C)		
Minimum	50°F	50°F	50°F	0%	
	(10°C)	(10°C)	(10°C)	0%	
Maximum	105°F	130°F	110°F	85%	
	(40°C)	(54°C)	(43°C)	03%	

Do not apply when the surface temperature is less than 5°F (3°C) above the dew point. Do not apply if temperatures are expected to drop below 50°F (10°C) within 24 hours of application. Condensation due to substrate temperatures below the dew point can cause flash rusting on prepared steel and interfere with proper adhesion to the substrate. Special application techniques may be required above or below normal application conditions.

#### **Curing Schedule**

Surface Temp. & 50% Relative Humidity	Dry to Handle	Dry to Topcoat	
50°F (10°C)	3 Hours	3 Hours	
75°F (24°C)	2 Hours	2 Hours	
90°F (32°C)	1 Hour	1 Hour	

These times are based on a 2.0-3.0 mil (50-75 micron) dry film thickness. Higher film thickness, insufficient ventilation, high humidity or cooler temperatures will require longer cure times.

The acrylic film forming process may require several weeks at 75°F (24°C) with proper ventilation to develop adhesion and water resistance. High humidity, high film thickness, insufficient ventilation or cooler temperatures will lengthen the Dry to Handle and Dry to Topcoat times due to slower water evaporation rate. Waterborne acrylics are sensitive to moisture during early cure and are susceptible to handling damage.

## Packaging, Handling & Storage

Shipping Weight	1 Gallon	5 Gallons	50 Gallons
(Approximate)	11 lbs	53 lbs	565 lbs
	(5 ka)	(24 kg)	(257 kg)

Flash Point (Setaflash) >200°F (93°C)

Storage (General) Store Indoors. Keep from Freezing

Storage Temperature 40° -110°F (4°-43°C) & Humidity 0-95% 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.



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