

## Selection & Specification Data

<b>Generic Type</b>	Waterborne Acrylic
<b>Description</b>	<u>Weathering finish</u> with excellent performance properties. Frequently used in the bridge market as a finish coat over inorganic zinc primers, as well as a user-friendly finish for numerous other substrates.
<b>Features</b>	<ul style="list-style-type: none"> <li>▪ Excellent performance over inorganic zinc primers</li> <li>▪ Superior color and gloss retention</li> <li>▪ Single component</li> <li>▪ Spray, brush and roll</li> <li>▪ Low odor, low VOC</li> </ul>
<b>Colors</b>	Refer to Carboline Color Guide
<b>Finish</b>	Semi-Gloss
<b>Primers</b>	Inorganic Zincs and others as recommended under <i>Substrates &amp; Surface Preparation</i> . A mist coat may be required to minimize bubbling over Inorganic Zinc primers.
<b>Dry Film Thickness</b>	2.0-3.0 mils (50-75 microns) Do not exceed 3.0 mils in a single coat
<b>Solids Content</b>	By Volume: 36% ± 2%
<b>Theoretical Coverage Rate</b>	577 mil ft <sup>2</sup> (14.1 m <sup>2</sup> /l at 25 microns) Allow for loss in mixing and application.
<b>VOC Values</b>	As supplied: 0.99 lbs/gal (119 g/l) EPA Method 24: 2.09 lbs/gal (250 g/l) These are nominal values and may vary slightly with color.
<b>Dry Temp. Resistance</b>	Continuous: 200°F (93°C) Non-Continuous: 250°F (121°C) Slight discoloration and loss of gloss is observed above 200°F (93°C).
<b>Limitations</b>	<ul style="list-style-type: none"> <li>▪ Apply and cure at 50°F (10°C) and above for 24 hour period.</li> </ul>

## Substrates & Surface Preparation

<b>General</b>	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.
<b>Steel</b>	SSPC-SP6 with a 1.0-2.0 mil (25-50 micron) surface profile for maximum protection. SSPC-SP2 or SP3 as minimum requirement. Prime with specific Carboline primers as defined in <i>Market Guides</i> or as recommended by your Carboline sales representative.
<b>Galvanized Steel</b>	SSPC-SP1. Prime with Carbocrylic® 120 or others as recommended in <i>Market Guides</i> .
<b>Concrete</b>	Concrete must be cured 28 days at 75°F (24°C) and 50% relative humidity or equivalent. Laitance, form oils, curing agents and hardeners must be removed by suitable method prior to coating application. Prime with specific Carboline primers as defined in <i>Market Guides</i> or as recommended by your Carboline sales representative.
<b>CMU</b>	Mortar joints should be thoroughly cured for a minimum of 15 days at 75°F (24°C) and 50% relative humidity or equivalent. Prime with Carbocrylic® 650.
<b>Drywall &amp; Plaster</b>	Joint compound and plaster should be fully cured prior to coating application. Prime with Carbocrylic 120.
<b>Wood</b>	Lightly sand with fine sandpaper and remove dust. Prime with Carbocrylic 120.
<b>Previously Painted Surfaces</b>	Lightly sand or abrade to roughen surface and degloss the surface. Existing paint must attain a minimum 3B rating in accordance with ASTM D3359 "X-Scribe" adhesion test. Prime with Carbocrylic 120.

## Performance Data

Test Method	System	Results	Report #
ASTM D4541 Adhesion	Blasted Steel 1 ct. IOZ 1 ct. 3350	500-600 psi (Elcometer)	08332 02556 SR321
ASTM D4213 Scrub Resistance	1 ct. 3350	.0384/.0138 Microliters per 100 cycles Wet/Dry Film Volume	03403
Midwest Weathering	Blasted Steel 1 ct. IOZ 1 ct. 3350	No effect on plane area after 24 months exposure	08332 02556 SR321

Test reports and additional data available upon written request.

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# Carbocrylic® 3350

## Application Equipment

**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, 3/8" I.D. minimum material hose, .043" 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: .015-.019"  
Output PSI: 1800-2100  
Filter Size: 60 mesh  
Teflon packings are recommended and available from the pump manufacturer.

**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. 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 warm, soapy water. If material has dried or if equipment is to be used with solvent based coatings, use Thinner #2 or Acetone. Flush spray equipment with Thinner #2 or Acetone after cleanup. 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. 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 (16°-32°C)	65°-85°F (18°-29°C)	65°-90°F (18°-32°C)	10-85%
Minimum	50°F (10°C)	50°F (10°C)	50°F (10°C)	0%
Maximum	100°F (38°C)	130°F (54°C)	120°F (49°C)	90%

Do not apply when the surface temperature is less than 5°F (3°C) above the dew point. Water-based products are sensitive to moisture during cure. Protect from rain for 72 hours at 75°F (24°C). 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 Touch	Dry to Topcoat
50°F (10°C)	8 Hours	8 Hours
60°F (16°C)	4 Hours	4 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 mil (50 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 Touch 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 (Approximate)** 1 Gallon 12 lbs (5 kg) 5 Gallons 55 lbs (25 kg)

**Flash Point (Setflash)** >200°F (93°C)

**Storage (General)** Store Indoors. **Keep from Freezing**

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

**Shelf Life** 24 months at 75°F (24°C)



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