

## Selection & Specification Data

<b>Generic Type</b>	Waterborne Acrylic
<b>Description</b>	Breathable, anti-microbial and water-resistant coating providing long-term weatherproofing for exterior concrete and masonry. Also designed for interior substrates where sanitary conditions and the control of bacteria are primary concerns.
<b>Features</b>	<ul style="list-style-type: none"> <li>▪ High-build up to 7 mils per coat</li> <li>▪ Breathable coating film</li> <li>▪ Controls mildew and bacteria growth</li> <li>▪ Elastomeric properties</li> <li>▪ Single component</li> <li>▪ Available in smooth and textured versions</li> <li>▪ Low odor, low VOC</li> </ul>
<b>Colors</b>	Refer to Carboline Color Guide
<b>Finish</b>	Eggshell
<b>Primers</b>	Refer to <i>Substrates &amp; Surface Preparation</i> .
<b>Dry Film Thickness</b>	Smooth: 7.0 mils (175 microns) Texture: 5.0 mils (125 microns) These are per-coat recommendations. Consult <i>Market Guides</i> for clarification of single-coat or two-coat applications.
<b>Solids Content</b>	By Volume: 48% ± 2%
<b>Theoretical Coverage Rate</b>	770 mil ft <sup>2</sup> (18.9 m <sup>2</sup> /l at 25 microns) Allow for loss in mixing and application.
<b>VOC Values</b>	As supplied: 1.54 lbs/gal (184 g/l) These are nominal values and may vary slightly with color.
<b>Dry Temp. Resistance</b>	Continuous: 170°F (76°C) Non-Continuous: 200°F (93°C) Slight discoloration and loss of gloss is observed above 170°F.
<b>Limitations</b>	<ul style="list-style-type: none"> <li>• Use only at temperatures of 50°F and above.</li> <li>• Do not use below-grade or on back-filled retaining walls.</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 and prime with Carbocrylic® 3358 for primary structural elements subject to long-term exterior exposure. SSPC-SP2 or SP3 and prime with Carbocrylic® 120 for incidental steel and misc. metal surfaces.
<b>Galvanized Steel</b>	SSPC-SP1. Prime with Carbocrylic 120.
<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 before coating application.
<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	Steel 2 cts. 600	785 psi (Pneumatic)	Ind. Test Report
ASTM D2370 Elongation	1 ct. 600	327% on a 7 mil free film	Ind. Test Report
ASTM D522 Flexibility	2 cts. 600	Passes 180° bend on 1/8" mandrel	Ind. Test Report
ASTM E96 Water Vapor Permeance	2 cts. 600	Water Vapor Permeance (WVP) of 7 U.S. Perms	Ind. Test Report
TT-C-555B Wind Driven Rain	2 cts. 600	Passes. No visible water penetration, no film loss or deterioration – 24 hrs.	Ind. Test Report
ASTM D2794 Impact Resistance	Steel 2 cts. 600	Withstands 24 inch pounds with no cracking	Ind. Test Report
ASTM D3273 Mildew/Fungus Resistance	2 cts. 600	No growth after test requirement of 7 days	Ind. Test Report
ASTM B117 Salt Fog	2 cts. 600	No loss of film integrity, no discoloration, no blistering or loss of adhesion after 300 hours	Ind. Test Report

Test reports and additional data available upon written request.

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# Carbocrylic 600

## Application Equipment

**Spray Application (General)** The following recommendations are the result of equipment manufacturer's testing and field experience. Contact the specific equipment manufacturer if using equipment other than described here.

**Airless / Pneumatic**  
**Carbocrylic 600 Smooth**  
Pump: 30:1 Graco President, Senator, Bulldog, King  
Material Hose: ½" x 25' or 3/8" x 50' max.  
Gun: Silver gun  
Tip Size: .015-.025"  
Reverse-A-Clean

**Airless / Gas**  
Pump: Graco 433, 533, 733  
Material Hose: ¼" x 25' or 3/8" x 50' max.  
Gun: Silver gun  
Tip Size: .015-.025"  
Reverse-A-Clean

**Carbocrylic 600 Textured**  
**Hand Hopper** Wallboard or Goldblatt 3/8" air line, ¼" orifice, 1/8" nozzle with 34-45 psi open line air. Spray 18"-24" from surface.

**Air / Bottom Feed Pot** 30' max. of 1" or ¾" material hose and ½" air hose, double regulator connected from tee, Binks 7E2 gun with ¼" orifice. Use ceramic or nylon insert for best service. Set regulators at 50 psi material and 50 psi atomizing pressures. Spray at 24" distance from surface.

**Roller** Use 9"-12" roller with 3/8"-1/2" nap. Wet the roller thoroughly with water and spin it out before filling it with material. Apply liberally to specified wet film mils. Avoid dry rolling. Multiple coats may be required to achieve desired appearance, hiding and recommended dry film thickness.

## Mixing & Thinning

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

**Thinning** Normally not required. Material is ready to apply as supplied. 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 Carboline Surface Cleaner 3 followed by potable water rinse. 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. Carbocrylic 600 is an alkaline solution that contains minor amounts of combustible solvents. Workmen must wear fresh airline respirators in confined areas. 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. Do not apply if temperatures are expected to drop below 50°F (10°C) within 24 hours of application. Water base products are sensitive to moisture during cure. Do not apply to frozen block or any masonry surface that has not completely thawed. Special application techniques may be required above or below normal application conditions.

## Curing Schedule

Surface Temp. & 50% Relative Humidity	Dry to Recoat
50°F (10°C)	48 Hours
60°F (16°C)	24 Hours
75°F (24°C)	12 Hours
90°F (32°C)	12 Hours

These times are based on a 7.0 mil (175 micron) dry film thickness. Higher film thickness, insufficient ventilation, high humidity or cooler temperatures will require longer cure times.

## Packaging, Handling & Storage

<b>Shipping Weight (Approximate)</b>	<u>5 Gallons</u> 55 lbs (25 kg)	<u>55 Gallons</u> 600 lbs (272 kg)
<b>Flash Point (Setflash)</b>	>200°F (93°C)	
<b>Storage (General)</b>	Store Indoors. <b>Keep from Freezing</b>	
<b>Storage Temperature &amp; Humidity</b>	40° -100°F (4°-40°C) 0-90% Relative Humidity	
<b>Shelf Life</b>	12 months at 75°F (24°C)	



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