

Selection & Specification Data

Generic Type	Waterborne Acrylic
Description	<u>Universal bonding primer</u> that adheres tenaciously to virtually any surface including difficult-to-coat substrates like galvanized and stainless steel, aluminum, PVC, FRP and ceramic tile. Designed for topcoating with most generic types.
Features	<ul style="list-style-type: none"> ▪ Glue-like bond to almost any surface ▪ Outstanding tie-coat over existing coatings ▪ Single component, thin-film application ▪ Topcoat with virtually any generic coating ▪ Ready-to-apply from can ▪ Fast drying ▪ Low odor; low VOC
Color	Translucent White (0800)
Finish	Satin
Primers	Typically self-priming or used as a tie-coat. Carbocrylic 120 can also be applied over Inorganic Zinc primers as an intermediate coat. A mist coat may be required to minimize bubbling over the Inorganic Zinc primers.
Topcoats	Acrylics, Alkyds, Epoxies, Polyurethanes
Dry Film Thickness	1.0-2.0 mils (25-50 microns) Do not exceed 3.0 mils in a single coat
Solids Content	By Volume: 38% ± 2%
Theoretical Coverage Rate	610 mil ft ² (15.0 m ² /l at 25 microns) Allow for loss in mixing and application
VOC Values	As supplied: 1.2 lbs/gal (144 g/l) These are nominal values.
Dry Temp. Resistance	Continuous: 150°F (66°C) Non-Continuous: 180°F (82°C) Slight discoloration and loss of gloss is observed above 150°F (66°C).

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-SP2 or SSPC-SP3
Galvanized Steel	SSPC-SP1
Concrete	Concrete must be cured 28 days at 75°F (24°C) and 50% relative humidity or equivalent. Laitance, form oils, curing agents and hardeners should be removed by suitable method prior to coating application.
Drywall & Plaster	Joint compound and plaster should be fully cured prior to coating application.
Aluminum	SSPC-SP1
Stainless Steel	SSPC-SP1
Wood	Lightly sand with fine sandpaper and remove dust.
Ceramic Tile	SSPC-SP1
PVC	SSPC-SP1
FRP	SSPC-SP1. Lightly sand with fine sandpaper and remove dust.
Previously Painted Surfaces	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.
Other Surfaces Not Listed	Apply a test patch and perform "X-Scribe" adhesion test in accordance with ASTM D3359. Must achieve a minimum 3B rating.

Performance Data

Test Method	System	Results	Report #
ASTM D3359 Adhesion	Drywall 1 ct. 120	4B-5B	08946
ASTM D4541 Adhesion	Galvanized 1 ct. 120	475 psi (Elcometer)	08946
ASTM D4541 Adhesion	Stainless Steel 1 ct. 120 1 ct. Acrylic	1290 psi (Elcometer)	08946
ASTM D4541 Adhesion	Blasted Steel 1 ct. 120	600 psi (Elcometer)	08946
ASTM D4541 Adhesion	Blasted Steel IOZ/120/ Polyurethane	650 psi (Elcometer) after 1000 hour exposure to ASTM B117 Salt Fog	03226
ASTM G26 Weatherometer	Blasted Steel IOZ/120/ Polyurethane	No blistering, rusting, cracking, checking after 2000 hours	03226

Test reports and additional data available upon written request.

Carbocrylic 120

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-.017"
Output PSI:	2000-2300
Filter Size:	60 mesh

Brush & Roller (General) Carbocrylic 120 is translucent and will appear not to fully hide at the recommended dry film thickness, and may have a streaky appearance when applied by brush or roller. These are normal conditions and won't affect performance. 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 Designed to be used as supplied. If thinning is necessary, it may be thinned up to 12 oz/gal (9%) with 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 Spray equipment should be flushed with water followed by mineral spirits. Brushes and rollers should be cleaned immediately after use with soap and water. If Carbocrylic 120 dries before it is cleaned up, use a heavy-duty ammoniated household cleaner and rinse thoroughly with water. 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)	10-80%
Minimum	45°F (7°C)	50°F (10°C)	50°F (10°C)	0%
Maximum	105°F (40°C)	130°F (54°C)	110°F (43°C)	85%

Do not apply when the surface temperature is less than 5°F (3°C) above the dew point. 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 with Water Base	Dry to Topcoat with Solvent Base	Full Cure
50°F (10°C)	3 Hours	12 Hours	60 Hours	28 Days
60°F (16°C)	3 Hours	4 Hours	36 Hours	14 Days
75°F (24°C)	1 Hour	1 Hour	24 Hours	7 Days
90°F (32°C)	1 Hour	1 Hour	18 Hours	4 Days

These times are based on a 1.0 mil (25 micron) dry film thickness. Higher film thickness, insufficient ventilation, high humidity or cooler temperatures will require longer cure times.

Packaging, Handling & Storage

Shipping Weight (Approximate)	<u>1 Gallon</u>	<u>5 Gallons</u>
	13 lbs (5 kg)	61 lbs (26 kg)

Flash Point (Setaflash) >200°F (93°C)

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

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

Shelf Life 36 months at 75°F (24°C)



350 Hanley Industrial Court St. Louis, MO 63144-1599
314-644-1000 314-644-4617 (fax) www.carboline.com

February 2000 replaces November 1999

To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to change without prior notice. User must contact Carboline Company to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Carboline quality control. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of products. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY CARBOLINE, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Carboline® and Carbocrylic® are registered trademarks of Carboline Company.