

## Selection & Specification Data

<b>Generic Type</b>	Waterborne Acrylic
<b>Description</b>	<u>Specialized high solids filler</u> used for sealing/filling masonry surfaces subject to both aggressive and mild environments. Unique formulation allows for topcoating with conventional alkyds and acrylics as well as high-performance epoxies.
<b>Features</b>	<ul style="list-style-type: none"> <li>▪ High solids with excellent filling properties</li> <li>▪ For use in wet, aggressive environments</li> <li>▪ Base coat for alkyds, acrylics and epoxies</li> <li>▪ Low water vapor transmission rate</li> <li>▪ Equivalent performance to catalyzed fillers</li> <li>▪ Single component</li> <li>▪ Low odor; low VOC</li> </ul>
<b>Color</b>	Cream
<b>Finish</b>	Flat
<b>Topcoats</b>	Acrylics, Alkyds, Epoxies
<b>Dry Film Thickness</b>	12.0 mils (300 microns) Second coat may be required on rough or extremely porous surfaces to attain pinhole-free surface (6 mils, 150 microns).
<b>Solids Content</b>	By Volume: 52% ± 2%
<b>Theoretical Coverage Rate</b>	834 mil ft <sup>2</sup> (20.4 m <sup>2</sup> /l at 25 microns) Allow for loss in mixing, application and rough or porous surfaces.
<b>VOC Values</b>	As supplied: 0.4 lbs/gal (48 g/l) These are nominal values.
<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 (76°C).
<b>Limitations</b>	<ul style="list-style-type: none"> <li>▪ Apply and cure at temperatures of 45°F (7°C) and above for 24 hours.</li> <li>▪ Do not use on previously coated surfaces or floors.</li> <li>▪ Must be topcoated</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>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.
<b>Concrete</b>	Carbocrylic 650 can be applied to abrasive blast-cleaned concrete but will not completely fill all surface voids and bugholes. Refer to <i>Market Guides</i> or contact your Carboline sales representative for specific recommendations in attaining a pinhole-free surface on concrete. Concrete must be cured 28 days at 75°F (24°C) and 50% relative humidity or equivalent. Laitance, form oils, curing agents, and surface hardeners must be removed by suitable method before coating application.

## Performance Data

Test Method	System	Results	Report #
ASTM D4541 Adhesion	CMU 1 ct. 650	506 psi (Pneumatic)	08932
ASTM D4541 Adhesion	CMU 2 cts. 650	527 psi (Pneumatic)	08932
ASTM D3359 Adhesion	CMU 1 ct. 650 1 ct. Epoxy	5A	02629
TT-C-555B Wind Driven Rain	CMU 2 cts. 650	Passes. No visible water leaks. Less than 1.0 oz. weight gain. No visible deterioration of coating	03162
ASTM D2246 Freeze Thaw	CMU 1 ct. 650	No evidence of cracking	09223

Test reports and additional data available upon written request.

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# Carbocrylic 650

## Application Equipment

**Spray Application (General)** The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco. Backrolling is required for all spray applications to ensure adequate filling of surface irregularities.

**Pressure Pot** Unit: Bottom outlet with dual regulators  
Material Hose: 25' of 3/4" I.D. min.  
Air Hose: 25' of 1 1/2" I.D. min.  
Spray Gun: Heavy duty mastic type  
Fluid Tip: .125"  
Air Cap: .125" Round

**Low Pressure Pneumatic** Unit: 10:1 min. with evenflo regulator  
Material Hose: 50' of 1" I.D. min.  
Air Hose: 50' of 1/2" I.D. min.  
Spray Gun: Heavy duty mastic type  
Fluid Tip: .125"  
Air Cap: .125" Round  
Teflon packings are recommended and are available from the manufacturer.

**Roller** Use 9"-12" roller with a phenolic core. The roller nap will depend on the texture of the substrate to be coated. Apply with full strokes and avoid re-rolling.

## 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 potable water, followed with a solvent flush 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 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	50°-90°F (10°-32°C)	50°-90°F (10°-32°C)	55°-90°F (13°-32°C)	40-60%
Minimum	45°F (7°C)	45°F (7°C)	45°F (7°C)	0%
Maximum	100°F (38°C)	100°F (38°C)	100°F (38°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 45°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 and avoid application in direct sunlight if possible. Special application techniques may be required above or below normal application conditions.

## Curing Schedule

Surface Temp. & 50% Relative Humidity	Dry to Touch	Dry to Recoat/ Topcoat with Water Base	Dry to Topcoat with Solvent Base
50°F (10°C)	2 Hours	36 Hours	96 Hours
70°F (21°C)	1 Hour	18 Hours	48 Hours
90°F (32°C)	1/2 Hour	12 Hours	36 Hours

These times are based on a 12.0 mil (300 micron) dry film thickness. Higher film thicknesses, insufficient ventilation, high humidity or cooler temperatures will require longer cure times.

## Packaging, Handling & Storage

**Shipping Weight (Approximate)** 5 Gallons  
57 lbs (26 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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