product data

carboline®

Sanitile 120

Heavy Duty Bonding Primer

Selection & Specification Data

Formerly *Carbocrylic 120*

Generic Type Waterborne Acrylic

Description Universal bonding primer 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

- Excellent primer/sealer for drywall
- 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 as supplied
- Fast drying
- Low odor; low VOC
- Suitable for use in USDA inspected facilities

Color Translucent White (0800)

Finish Satin

Primers Typically self-priming or used as a tie-coat

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: 0.43 lbs./gal (52 g/l)
EPA Method 24: 0.82 lbs./gal (98 g/l)
(Calculated minus water and exempt solvents)
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).

Limitation: Not to be used as a "filler" for CMU.

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 Not recommended in corrosive environments (does not contain a corrosion inhibitor).

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 3A 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 3A rating.

Performance Data

Test Method	System	Results	Report #
ASTM D3359 Adhesion	Drywall 1 ct. 120	4A-5A	08946
ASTM D4541 Adhesion	Galvanized 1 ct. 120	475 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.

Sanitile 120

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) 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) Sanitile 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 Sanitile 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)	1 Gallon 13 lbs (6 kg)	5 Gallons 61 lbs (28 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 Min. 36 months at 75°F (24°C)

***Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.**

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

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