

SELECTION & SPECIFICATION DATA

Generic Type	Aliphatic Polyaspartic
Description	This fast cure high build polyaspartic coating provides excellent corrosion protection as well as long term weatherability in just one coat. It can be applied direct to metal (DTM) at 6 to 10 mils dry film thickness (DFT) to eliminate the need for typical primers and/or intermediate coats. This significantly speeds up the painting process, saves labor, and saves Money without sacrificing performance. If even better corrosion protection is desired it can be applied over our time proven Carbozinc, Carbomastic, or Carboguard primers.
Features	<ul style="list-style-type: none"> • Fast cure speeds the painting process • High build, 6 to 10 mils DFT per coat • Excellent corrosion protection • Meets ISO 12944-6 C3 High, one coat applied DTM • Saves significant time, labor and money • Excellent weathering • Meets SSPC Coating Specification No. 39 Level 3A • Very good flexibility and elongation • Excellent abrasion and impact resistance • Excellent wetting and adhesion • Low VOC and low HAPS • Suitable for use in USDA inspected facilities
Color	Available in many colors. Refer to Carboline Color Chart.
Finish	High Gloss
Primer	Self-priming, DTM, for many applications. For more severe service use with one of the following approved Carboline primers: Carbozinc 11 Series; Carbozinc 608 HB; Carbozinc 621 with recoat window of 2 to 4 hours at 75 °F; Carbozinc 8701 with overnight cure; Carboguard 60 Series; Carboguard 61; Carboguard 635 Series; or CG 8922 Series. Contact Carboline for recommendations.
Dry Film Thickness	6-10 mils (152-254 microns) per coat Can be applied at 4-5 mils DFT (102-127 microns) when applied over approved primer(s).
Solids Content	By Volume 70% +/- 2%
Theoretical Coverage Rate	27.6 m ² /l at 25 microns (1123 ft ² /gal at 1.0 mils) Allow for loss in mixing and application.
Theoretical Coverage Rates	1123 ft ² /gal at 1.0 mils (27.6 m ² /l at 25 microns) 187 ft ² /gal at 6.0 mils (4.6 m ² /l at 150 microns) 112 ft ² /gal at 10.0 mils (2.8 m ² /l at 250 microns) Allow for loss in mixing and application.
HAPs Values	0.07 lbs/solid gallon. This value may vary by color.
VOC Values	As Supplied : 2.05 lbs./gal (246 g/l) These values may vary by color.
Dry Temp. Resistance	Continuous: 93°C (200°F) Non-Continuous: 121°C (250°F)

Carboquick 200

PRODUCT DATA SHEET



SUBSTRATES & SURFACE PREPARATION

General	Remove all contaminants per SSPC-SP 1.
Steel	Minimum Commercial Blast Clean per NACE No. 3/SSPC-SP 6 with a 2.0-3.0 mil (50-75 micron) anchor profile for maximum protection.
Galvanized Steel	Clean per SSPC-SP 16 with 1.0-3.0 mils (25-75 micron) anchor profile or prime as recommended by your Carboline Sales Representative. Refer to the specific primer's Product Data Sheet for substrate preparation requirements.
Phosphatized Steel	Remove all contaminants per SSPC-SP 1.

MIXING & THINNING

Mixing	Power mix separately, then combine and power mix thoroughly.
Thinning	Not normally required. Can be reduced up to 6 oz/gal with the following: Thinner 236 E; Thinner 10; or Thinner 76. For warmer temperatures use Thinner 214 or Thinner 25. Use of thinners other than those supplied or recommended by Carboline may adversely effect product performance and void product warranty, whether expressed or implied.
Ratio	2:1 Ratio (A to B)
Pot Life	1.5 hours at 75°F (24°C) and less at higher temperatures. Pot life ends when coating becomes too viscous to use. Moisture contamination will shorten pot life and cause gellation.

APPLICATION EQUIPMENT GUIDELINES

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.

Spray Application (General)	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.
Spray Application	This is a high solids coating and may require adjustments in spray techniques. Wet film thickness is easily and quickly achieved. The following spray equipment has been found suitable and is available from the manufacturers.
Conventional Spray	Pressure pot equipped with dual regulators, minimum 3/8" I.D. material hose, 0.070" I.D. fluid tip and appropriate air cap.
Airless Spray	Pump Ratio: 30:1 (min.) Volume Output: minimum 2.5 gpm (9.5 l/min.) Airless Hose: 3/8" I.D. (min.) Tip Size: 0.013-0.017" Output PSI: 1,700-2,300 Filter Size: 60 mesh PTFE packings are recommended and available from the pump manufacturer.
Brush & Roller (General)	Recommended for small areas or touch-up only. Multiple coats may be required to obtain desired appearance, recommended dry film thickness and adequate hiding. Avoid excessive re-brushing or re-rolling. For best results, tie-in within 10 minutes at 75°F (24°C).

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	4°C (39°F)	2°C (36°F)	2°C (36°F)	10%
Maximum	32°C (90°F)	60°C (140°F)	43°C (109°F)	95%

Industry standards are for substrate temperatures to be 5 °F (3 °C) above the dew point. This product simply requires the substrate to be above the dew point. Caution: this product does react with atmospheric moisture in order to complete final cure. Relative humidity below 30% will slow cure time.

CURING SCHEDULE

Surface Temp.	Dry to Touch	Dry to Handle or Recoat	Final Cure General
2°C (36°F)	3 Hours	17 Hours	7 Days
4°C (39°F)	25 Hours	16 Hours	7 Days
10°C (50°F)	2 Hours	7 Hours	7 Days
24°C (75°F)	30 Minutes	1.5 Hours	4 Days
32°C (90°F)	30 Minutes	1 Hour	2 Days

These times are based on 50% relative humidity (RH) and 6-10 mils (152-254 microns) dry film thickness (DFT). At 4-5 mils DFT (102-127 microns), 75 °F, and 50% RH the Dry To Handle Times are approximately 50-60 minutes. RH lower than 50%, higher film thickness, insufficient ventilation and/or cooler temperatures will require longer cure times and could result in solvent entrapment and premature failure. Excessive humidity and/or condensation on the surface during curing can interfere with the cure, can cause micro-foaming and may result in loss of sheen and/or discoloration. Maximum recoat with itself is six months. Afterwards it is recommended to abrade the coating to create anchor profile.

CLEANUP & SAFETY

Cleanup	Use Thinner 2 or Acetone. In case of spillage, dispose of in accordance with local applicable regulations.
Safety	Read and follow all caution statements on this product data sheet and on the SDS for this product and use personal protective equipment as directed.
Ventilation	When used in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion limit for the solvents used. User should test and monitor exposure levels to insure all personnel are below guidelines. If not able to monitor levels, use MSHA / NIOSH approved respirator.

PACKAGING, HANDLING & STORAGE

Shelf Life	Part A: Minimum 24 months at 75°F (24°C) Part B: Minimum 24 months at 75°F (24°C) *Shelf life: keep at recommended storage conditions and in original unopened containers.
Shipping Weight (Approximate)	0.75 gallon kit: 10.1 lbs (4.59 kg) 3 gallon kit: 35.5 lbs (16.1 kg)
Storage Temperature & Humidity	40°F-110°F (4°C-43°C) 0-90% Relative Humidity
Flash Point (Setflash)	Part A: 42°F, (5.6°C) Part B: 42°F, (5.6°C)

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PACKAGING, HANDLING & STORAGE

	Store Indoors.
Storage	This product is solvent based and not affected by excursions below these published storage temperatures, down to 10°F, for a duration of no more than 14 days. Always inspect the product prior to use to make sure it is smooth and homogeneous when properly mixed.

WARRANTY

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 to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. Carboline warrants our products to be free of manufacturing defects in accord with applicable Carboline quality control procedures. THIS WARRANTY IS NOT VALID WHEN THE PRODUCT IS NOT: (1) APPLIED IN ACCORDANCE WITH CARBOLINE'S SPECIFICATIONS, AND/OR (2) PROPERLY STORED, CURED, AND USED UNDER NORMAL OPERATING CONDITIONS. Carboline assumes no responsibility for coverage, performance, injuries, or damages resulting from use of the product. If this product is found not to perform as specified upon inspection by a Carboline representative during the warranty period, Carboline's sole obligation, if any, is to replace the Carboline product(s) proven to be defective or refund the purchase price thereof, at Carboline's sole option. Carboline shall not be liable for any other losses or damages. This warranty excludes (1) labor and costs of labor for the application or removal of any product, and (2) any incidental or consequential damages, whether based on breach of express or implied warranty, negligence, strict liability or any other legal theory. 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. All of the trademarks referenced above are the property of Carboline International Corporation unless otherwise indicated. The whole text of this Product Data Sheet, as well as the documents derived from it, have been written in English, and for legal purposes the English version shall prevail.