Carboxane 960

PRODUCT DATA SHEET

SELECTION & SPECIFICATION DATA

Generic Type	Fluorourethane Finish
Description	An ultra weatherable fluoropolymer polyurethane offering long-lasting durability and protection against harsh environmental conditions. Ideal for outdoor applications, Carboxane 960 combines superior UV stability with exceptional application properties, making it the ultimate choice as a finish coat for high-performance coating systems.
Features	• Performance upgrade for AWWA D102-21, OCS-4, meeting accelerated weathering performance • Exceeds SSPC Paint 47 performance • Exceptional color and gloss retention • Optimized for brush and roll application
Color	White (1864) A wide range of colors is available upon request.
Finish	Gloss
Primer	Carboguard, Carbomastic and Carbothane series, Rustbond PS, or other primers as specified by Carboline Technical Service.
Dry Film Thickness	2 - 3 mils (51 - 76 microns) per coat
Solids Content	By Volume 61% +/- 2%
Theoretical Coverage Rate	978 ft²/gal at 1.0 mils (24.0 m²/l at 25 microns) 489 ft²/gal at 2.0 mils (12.0 m²/l at 50 microns) 326 ft²/gal at 3.0 mils (8.0 m²/l at 75 microns) Allow for loss in mixing and application.
VOC Value(s)	Per EPA Method 24: 1.24 lbs./gal (148 g/l) These are nominal values and may vary slightly with color. This product contains US EPA VOC-exempt solvent(s).
Dry Temp. Resistance	Continuous: 200°F (93°C) Non-Continuous: 250°F (121°C) Slight discoloration and loss of gloss is observed above 200°F (93°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	Prepare surface and prime with specific Carboline primers as recommended by your Carboline Sales Representative.
Aged PVDF Finishes	SSPC-SP1 (A test patch adhesion check is required.)
Non-Ferrous Metals	Prepare surface and prime with specific Carboline primers as recommended by your Carboline Sales Representative.

MIXING & THINNING

Mixing	Power mix Part A, then combine Part B (Urethane Converter 8843) and power mix to a uniform consistency. DO NOT MIX PARTIAL KITS.
Thinning	Spray: Up to 13 oz/gal (10%) with Thinner 214 for normal as well as hot, windy conditions. Brush & Roll: Up to 8 oz/gal (6%) with Thinner 234. Shake Thinner 234 well before using. Do not exceed 6% by volume. Use of thinners other than those supplied by Carboline may adversely affect product performance and void product warranty, whether expressed or implied.
Ratio	4:1, A:B by volume
Pot Life	7 Hours at 75°F (24°C) unthinned and less at higher temperatures. Pot life ends when coating becomes too viscous to use. THIS PRODUCT IS MOISTURE SENSITIVE. AVOID MOISTURE CONTAMINATION.

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)	The following spray equipment has been found suitable.
Conventional Spray	Pressure pot equipped with dual regulators, 3/8” I.D. minimum material hose, 0.070” I.D. fluid tip and appropriate air cap.
Airless Spray	Pump Ratio: 30:1 (min.)* GPM Output: 1.25 (min.) Material Hose: 3/8” I.D. (min.) Tip Size: 0.011-0.017” Output PSI: 2000-2300 Filter Size: 60 mesh *PTFE packings are recommended and available from the pump manufacturer.
Brush	Use a medium bristle brush.
Roller	Use a 1/4" mohair roller cover, solvent resistant roller cover. A minimum of two coats may be required to attain desired appearance, hiding and recommended dry film thickness.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	50°F (10°C)	40°F (4°C)	40°F (4°C)	0%
Maximum	90°F (32°C)	120°F (49°C)	95°F (35°C)	80%

Industry standards are for substrate temperatures to be 5°F (3°C) above the dew point. Special application techniques may be required above or below normal application conditions.
Caution: Product is moisture sensitive. Application and/or curing in humidity above maximum, or exposure to moisture from rain or dew may result in a loss of gloss and/or microbubbling of the product.

CURING SCHEDULE

Surface Temp.	Dry to Handle
40°F (4°C)	2 Days
50°F (10°C)	22 Hours
75°F (24°C)	11 Hours
90°F (32°C)	7 Hours

These times are based on a 2.0-3.0 mil (50-75 micron) dry film thickness. Higher film thickness, insufficient ventilation or cooler temperatures will require longer cure times and could result in solvent entrapment and premature failure.

CLEANUP & SAFETY

Cleanup	Use Thinner 2 or Acetone. 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 SDS for this product. Employ normal workmanlike safety precautions.
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. In addition to ensuring proper ventilation, appropriate respirators must be used by all application personnel.
Caution	This product contains flammable solvents. Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workers should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

PACKAGING, HANDLING & STORAGE

Packaging	**5 Gallon (18.9 L) Kit:** Part A: 4 gallons (15 liters) Part B: 1 gallon (3.8 liters) **1 Gallon (3.8 L) Kit:** Part A: 0.8 gallon (3 liters) Part B: 0.2 gallon (0.8 liters)
Shelf Life	Part A: Min. 36 months at 75°F (24°C) Part B (Urethane Converter 8843): Min. 24 months at 75°F (24°C) Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.
Storage Temperature & Humidity	40° – 110°F (4-43°C) 0°-80% Relative Humidity
Storage	Store Indoors
Shipping Weight (Approximate)	1 Gallon Kit - 12.4 lbs (5.6 kg) 5 Gallon Kit - 52.8 lbs (24 kg)
Flash Point (Setaflash)	Part A: 81°F (27°C) Part B (Urethane Converter 8843): 62°F (17°C)

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.