Carboguard 1340 FC

PRODUCT DATA SHEET

SELECTION & SPECIFICATION DATA

Generic Type	Polymeric epoxy amine.
Description	Carboguard 1340 FC is a primer/sealer recommended for bare masonry and other substrates requiring sealing prior to coating application. This high solids, low VOC product has excellent penetration and sealing properties on many substrates. Carboguard 1340 FC cures fast in cold weather and is recommended as an alternative to Carboguard 1340 in such conditions. Use standard 1340 above 70°F.
Features	• Excellent penetration and sealing action on masonry surfaces • Excellent adhesion to old coatings • Cures down to 35°F (2°C) • Low odor • Compatible with a variety of finish coat
Color	Clear(0000)
Finish	High Gloss (85-100) Chalks rapidly in sunlight.
Primer	Self-priming. May be applied over most generic types of coatings.
Dry Film Thickness	25 - 51 microns (1 - 2 mils) per coat
Solids Content	By Volume 90% +/- 2%
Theoretical Coverage Rate	35.4 m²/l at 25 microns (1444 ft²/gal at 1.0 mils) 17.7 m²/l at 50 microns (722 ft²/gal at 2.0 mils) Allow for loss in mixing and application.
VOC Values	**As Supplied** : 0.9 lbs./gal (106 g/l) **EPA Method 24:** 0.9 lb/gal (108 g/l) 7 oz/gal w/thinner #2 1.22 lbs./gal (147g/l) These are nominal values. *Use Thinner #76 up to 8 oz/gal where nonphotochemically reactive solvents are required.
Limitations	• Epoxies lose gloss, discolor and eventually chalk in sunlight exposure • **Do not use for immersion service**

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.
Concrete	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.
Previously Painted Surfaces	A test patch is recommended to verify compatibility with existing coating. Existing paint must attain a minimum 3B rating in accordance with ASTM D3359 “X-Scribe” adhesion test.
Carboline Fireproofing Products	Consult Carboline Technical Service or your sales representative for specific applications and requirements.

MIXING & THINNING

Mixing	Power mix components separately to break down any gel. Keep the mixing blade at slow speed and submerged in the product to minimize whipping of air into the material. Scrape the sides of the container occasionally to insure uniformity. Continue to mix for 1-2 minutes. DO NOT MIX PARTIAL KITS, and do not intermix unpaired components.
Thinning	Thinning not normally required, but may be thinned up to 9% (12 oz/gal) with Thinner #76 or up to 6% (8 oz/gal) Thinner #2. Use of thinners other than those supplied or recommended by Carboline may adversely affect product performance and void product warranty, whether express or implied.
Ratio	1:1 Ratio A to B
Pot Life	Times listed are for 1/2 gallon kit: 45 minutes at 75°F (28°C) 90 minutes at 40°F and longer at lower temperatures. **Do not use above 75°F (28°C) material temperature.** Pot life ends when material begins to thicken and exotherm. Any unused quantities will become extremely hot and will generate smoke and fumes. Immediately spread out on an appropriate surface or add sand or other suitable heat sink to the unused material to reduce the severity of exotherm. Take appropriate precautions against breathing fumes.

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)	Contact Carboline Technical Service for specific application instructions.
Brush & Roller (General)	Avoid excessive re-brushing or re-rolling. Apply enough material to uniformly wet the surface. Any puddles formed must be brushed out.
Brush	Use a medium bristle brush and distribute evenly using full brush strokes.
Roller	Use a short to medium nap roller, suitable for solvent base materials, to evenly distribute the material. Avoid excessive thicknesses.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	4°C (40°F)	2°C (35°F)	2°C (35°F)	0%
Maximum	24°C (75°F)	32°C (90°F)	32°C (90°F)	80%

These products simply requires the substrate temperature to be 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.	Dry to Handle	Dry to Topcoat	Final Cure General	Maximum Recoat Time Acrylics & Alkyds	Maximum Recoat Time Epoxies & Urethanes
2°C (35°F)	NR	NR	NR	NR	21 Days
2°C (35°F)	23 Hours	23 Hours	9 Days	7 Days	21 Days
10°C (50°F)	18 Hours	18 Hours	6 Days	7 Days	21 Days
24°C (75°F)	6 Hours	6 Hours	3 Days	7 Days	21 Days

These times are based on a 1.0–2.0 mils (25-50 microns) 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. Excessive humidity or condensation on the surface during curing can interfere with the cure, can cause discoloration and may result in a surface haze. Any haze or blush must be removed by water washing before recoating. During high humidity conditions, it is recommended that the application be done while temperatures are increasing. If maximum recoat time is exceeded the surface must be abraded by sweep blasting, or by the application of another coat of Carboguard 1340 FC before applying any additional coatings.

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 MSDS 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. User should test and monitor exposure levels to insure all personnel are below guidelines. If not sure or if not able to monitor levels, use MSHA/NIOSH approved respirator.
Caution	This product exotherms at the end of its pot life. Any unused quantities will become extremely hot. Immediately spread out on an appropriate surface or add sand or other suitable heat sink to the unused material to reduce the severity of exotherm. Take appropriate precautions against breathing fumes. 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, workmen should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

PACKAGING, HANDLING & STORAGE

Shelf Life	Part A & B: 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.
Shipping Weight (Approximate)	0.5 Gallon Kit - 5 lbs. (2.2 kg) 2 Gallon Kit - 19 lbs. (8.6 kg)
Storage Temperature & Humidity	40° - 110°F (4°-43°C) 0-90% Relative Humidity
Flash Point (Setaflash)	Carboguard 1340 FC Part A: >45°F (7.2°C) Carboguard 1340 FC Part B: >42°F (6°C)
Storage	Store Indoors.

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.