

# Carboguard E-19 Sealer

PRODUCT DATA SHEET

# **SELECTION & SPECIFICATION DATA**

**Generic Type** | Two-components amine cured epoxy.

Description | Carboguard E19 Sealer is a tie-coat specially designed for application on top of metalized steel and

inorganic zinc silicate. To be used to avoid pore development in successive coat.

Features Widely used within offshore- and shipping industries on top of metallized surfaces and zinc silicate

where excellent corrosion resistance is expected.

Color | Red and Grey

Finish | Semi-Gloss

Wet Film Thickness | 60 − 120 µm per coat.

Dry Film Thickness | 25 - 50 microns (0.98 - 1.97 mils) per coat

Solid(s) Content | By volume: 42 ± 2%

Theoretical Coverage 17 m<sup>2</sup> at 25 µm DFT

Rates 8,4 m²/l at 50 µm DFT

Allow for loss in mixing and application.

Dry Temp. Resistance Continuous: 120°C (248°F)

Non-Continuous: 140°C (284°F)

**Limitations** Not recommended for immersion service in aromatic or ketone solvents and strong oxidizing acids.

Topcoats May be top coated with epoxy, vinyl, acryl, polyurethane or other coatings as recommended by

Carboline.

# SUBSTRATES & SURFACE PREPARATION

General

Surface 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. Carboline Thinner #2 or Carboline Surface Cleaner #3 can be used.

Substrates: Metallized steel and zinc silicate

### MIXING & THINNING

Mixing | Power mix separately, then add part B to Part A and power mix. DO NOT MIX PARTIAL KITS.

**Thinning** The product is pre-thinned and should normally not be thinned any further. In case thinning is required, use Carboline Thinner 2.

Ratio | 2:1 (A to B) by volume

**Pot Life** 4 hours at 23°C and higher at lower temperatures.

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### 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.

# General

The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.

Pump ratio: 30:1 (min.) \*

Output flow: 11.56 LPM (3.0 GPM) (min.) Material Hose: 9.53 mm (3/8") I.D. (min.) Tip Size: 0.36-0.48 mm (0.014-0.019")

Airless Spray

Output PSI: 145 bar (2100 psi) Filter Size: 250 microns (60 mesh)

\* Teflon packings are recommended and available from the pump manufacturer.

Brush & Roller (General)

Can be used for small areas.

#### APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	5°C (41°F)	5°C (41°F)	5°C (41°F)	0%
Maximum	40°C (104°F)	50°C (122°F)	50°C (122°F)	85%

Industry standards are for substrate temperatures to be 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.	Dry to Touch	Dry to Recoat	Final Cure
5°C (41°F)	5 Hours	24 Hours	16 Days
10°C (50°F)	2 Hours	18 Hours	14 Days
25°C (77°F)	1 Hour	6 Hours	7 Days
40°C (104°F)	30 Minutes	3 Hours	3 Days

The above times are based on 50µm DFT. Higher DFT, insufficient ventilation or lower ambient temperatures would cause longer curing times.

### **CLEANUP & SAFETY**

Cleanup

Use solvent Carboline Thinner 2. 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. Hypersensitive persons should wear protective clothing, gloves and use protective cream on face, hands and all exposed areas.

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.



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### **CLEANUP & SAFETY**

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 applicable regulations. 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: 24 months at 24°C

Part B: 24 months at 24°C

**Storage Temperature &** | 5° - 45°C

**Humidity** 0 - 95% relative humidity

**Storage** | Store indoors.

Packaging | Part A 13,3 litres Part B 6,7 litres

#### 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.