

SELECTION & SPECIFICATION DATA

Generic Type	Modified epoxy
Description	This epoxy is a fast-curing, heavy-duty, high-build anti-corrosive coating with a broad and versatile list of uses in marine and other corrosive environments. It is an excellent choice for the protection of ship hull exteriors, underwater and ballast tanks. Offshore applications include splash zone, sub-sea, jackets, production decks, drilling rig legs and pontoons in immersed exposures.
Features	<ul style="list-style-type: none"> • Excellent immersion performance in both fresh and sea water • Suitable as a rust preventive coating in ballast tanks and hull applications • Ideal for sub-sea installations, jackets and other areas exposed to sea water • Can be applied as low as 5°C (40°F) • Good flexibility • Very good abrasion resistance • High solids; low VOC
Color	Standard: Off White (1702)
Finish	Semi-Gloss
Primer	Self-priming
Wet Film Thickness	150 - 590 µm per coat, normally 205 µm.
Dry Film Thickness	125 - 500 microns (4.92 - 19.68 mils) per coat Normally applied in 7 mil (175 microns) thicknesses. May be applied up to 20 mils (500 microns) in one or more coats depending on application.
Solids Content	By Volume 85% +/- 2%
Theoretical Coverage Rate	33.5 m ² /l at 25 microns (1363 ft ² /gal at 1.0 mils) 6.8 m ² /l at 123 microns (277 ft ² /gal at 4.9 mils) 1.7 m ² /l at 492 microns (69 ft ² /gal at 19.7 mils) Allow for loss in mixing and application.
VOC Values	As Supplied : 120 g/L These are nominal values.
Dry Temp. Resistance	Continuous: 121°C (250°F) Non-Continuous: 149°C (300°F) Epoxies discolor (darken) when exposed to elevated temperatures.
Approvals	<ul style="list-style-type: none"> • Det Norske Veritas, Standard Testing Classification of Ballast Tank Coatings, rev. 4/2/. • IMO Performance Standard for Protective Coatings. * • DNV Type Approval Certificate * • NS 5417-1998 Norwegian waterpower <p>* For product manufactured by Carboline Norge AS</p>
Limitations	Epoxies lose gloss, discolor and eventually chalk in sunlight exposure. Not recommended for immersion in aromatic or ketone solvents or strong oxidizing acids.

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PRODUCT DATA SHEET



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Topcoats | Normally not topcoated for submerged exposures, otherwise topcoat according to Carboline recommendations.

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. Carboline Surface Cleaner 3 is recommended.

Steel, concrete or suitable primer such as Carbozinc 858. Can be applied directly to galvanised steel, aluminium and stainless steel.

Steel | Immersion: (SSPC-SP10) with a 2-3 mil surface profile.
Non-Immersion: (SSPC-SP2) minimum is acceptable.

MIXING & THINNING

Mixing | Power mix separately, then combine and power mix. DO NOT MIX PARTIAL KITS.

Thinning | Up to 15% with Thinner #2

Ratio | 1:1 Ratio (Part A to B) by Volume

Pot Life | 2 Hours at 75°F and less at higher temperatures.

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 and is available from manufacturers.

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Airless Spray | Pump Ratio: 30:1 (min.)*
Volume Output: 3.0 gpm min.
Material Hose: 3/8" I.D. min.
Tip Size: 0.019-0.025"
Output Pressure: 2200-2400 psi
Filter Size: 60 mesh
*PTFE packings are recommended and available from the pump manufacturer.

Brush & Roller (General) | For small areas only. Multiple coats may be required to obtain desired appearance, recommended dry film thickness and adequate hiding. Use a good quality brush or medium nap synthetic core roller.

Brush | Use a medium bristle brush.

Roller | Use a medium nap phenolic core roller.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	4°C (40°F)	2°C (35°F)	2°C (35°F)	0%
Maximum	35°C (95°F)	52°C (125°F)	38°C (100°F)	85%

Industry standards are for substrate temperatures to be 5°F above the dew point. Condensation due to substrate temperatures below the dew point can cause flash rusting on prepared steel. Special application techniques may be required above or below normal application conditions.

CURING SCHEDULE

Surface Temp.	Dry to Recoat	Final Cure
5°C (41°F)	17 Hours	15 Days
10°C (50°F)	10 Hours	12 Days
15°C (59°F)	6.5 Hours	9 Days
20°C (68°F)	4 Hours	7 Days
25°C (77°F)	3 Hours	5 Days

These times are based on a recommended dry film thickness. Higher than recommended film thicknesses, insufficient ventilation, or cooler temperatures will require longer cure times and could result in solvent entrapment and premature failure. Maximum recoating time is 1-2 months depending on temperature and curing conditions. If exceeded, contact Carboline for further information about recoating procedures

CLEANUP & SAFETY

Cleanup	Use 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.
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.
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	36 months at 24°C *Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.
Shipping Weight (Approximate)	20 Ltr Kit - 32.5 kg
Storage Temperature & Humidity	40°F-110°F (5°-45°C) 0-100% Relative Humidity

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PACKAGING, HANDLING & STORAGE

Flash Point (Setaflash)	Part A: 80°F (27°C)
	Part B: 90°F (32°C)

Storage	Store Indoors.
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Packaging	Part A: 10 litres
	Part B: 10 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 Company to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Carboline quality control. We assume no responsibility for coverage, performance, injuries or damages resulting from use. Carbolines sole obligation, if any, is to replace or refund the purchase price of the Carboline product(s) proven to be defective, at Carbolines option. Carboline shall not be liable for any loss or damage. 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.