

## SELECTION & SPECIFICATION DATA

<b>Generic Type</b>	Epoxy polyamide
<b>Description</b>	<b>Carbomastic 18 BT</b> 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 sub-sea, jackets, production decks, drilling rig legs, pontoons, in immersed surfaces. It meets the demands in IMO Performance Standard for Protective Coatings. It is classified "B1" (Superior Grade) under DNV standard "Testing and Classification of Ballast Tank Coatings".
<b>Features</b>	<ul style="list-style-type: none"> <li>• Excellent immersion performance in both fresh and sea water</li> <li>• Suitable as a rust preventive coating in ballast tanks and hull applications</li> <li>• Ideal for sub-sea installations, jackets and other areas exposed to sea water</li> <li>• Can be applied as low as 5°C (40°F)</li> <li>• Good flexibility</li> <li>• Very good abrasion resistance</li> <li>• VOC compliant</li> </ul>
<b>Color</b>	Gray (0700) and Buff (0200)
<b>Finish</b>	Semi-Gloss
<b>Primer</b>	Self-priming
<b>Dry Film Thickness</b>	<p>5 - 6 mils (127 - 152 microns) per coat</p> <p>Up to 20 mils (500 microns) in one or more coats depending on application. Multiple 5-6 mil passes</p>
<b>Solids Content</b>	By Volume 75% +/- 2%
<b>Theoretical Coverage Rate</b>	<p>1203 ft²/gal at 1.0 mils (29.5 m²/l at 25 microns)</p> <p>241 ft²/gal at 5.0 mils (5.9 m²/l at 125 microns)</p> <p>200 ft²/gal at 6.0 mils (4.9 m²/l at 150 microns)</p> <p>Allow for loss in mixing and application.</p>
<b>VOC Values</b>	<p><b>As Supplied</b> : 1.74 lbs./gal (209 g/l)</p> <p>These are nominal values.</p>
<b>Dry Temp. Resistance</b>	<p>Continuous: 250°F (121°C)</p> <p>Non-Continuous: 300°F (149°C)</p> <p>Epoxies discolor (darken) when exposed to elevated temperatures.</p>
<b>Approvals</b>	<p>Det Norske Veritas (DNV): Classification B1; Testing and Classification of Ballast Tank Coatings</p> <p>American Bureau of Shipping (ABS): Type Approval for Ballast Tanks</p>
<b>Limitations</b>	Epoxies lose gloss, discolor and eventually chalk in sunlight exposure. Not recommended for immersion in aromatic or ketone solvents or strong oxidizing acids. When topcoated with light-colored finishes, some "bleed-through" may occur.

### SUBSTRATES & SURFACE PREPARATION

<b>General</b>	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.
<b>Steel</b>	Immersion: (SSPC-SP10) with a 2-3 mil surface profile. Non-Immersion: (SSPC-SP2) minimum is acceptable.
<b>Concrete or CMU</b>	Concrete must be cured 28 days at 20°C and 50% relative humidity or equivalent. Prepare surfaces in accordance with ASTM D4258 Surface Cleaning of Concrete and ASTM D4259 Abrading Concrete. Voids in concrete may require surfacing.

### TYPICAL CHEMICAL RESISTANCE

Exposure	Fumes	Splashes & Spills
Acids	Excellent	Very Good
Alkalies	Excellent	Very Good
Salt	Excellent	Excellent
Solvents	Very Good	Fair
Water	Excellent	Excellent

#### Det Norske Veritas (DNV)

Classification: B1

Testing and Classification of Ballast Tank Coatings

### MIXING & THINNING

<b>Mixing</b>	Power mix separately, then combine and power mix. DO NOT MIX PARTIAL KITS. Allow 10-minute induction time prior to use.
<b>Thinning</b>	Up to 15% with Thinner #10
<b>Ratio</b>	1:1 Ratio (B to A) by Volume
<b>Pot Life</b>	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.

<b>Spray Application (General)</b>	The following spray equipment has been found suitable and is available from manufacturers.
<b>Airless Spray</b>	Pump Ratio: 30:1 (min.)* Volume Output: 2.5 gpm min. Material Hose: 3/8" I.D. min. Tip Size: 0.023-0.027" Output Pressure: 2100-2400 psi Filter Size: 60 mesh *PTFE packings are recommended and available from the pump manufacturer.

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**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.

## APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	50°F (10°C)	40°F (4°C)	40°F (4°C)	0%
Maximum	95°F (35°C)	125°F (52°C)	100°F (38°C)	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 Handle	Final Cure General	Maximum Dry to Recoat for Immersion
40°F (4°C)	24 Hours	18 Days	20 Days
50°F (10°C)	14 Hours	14 Days	20 Days
70°F (21°C)	8 Hours	6 Days	20 Days
85°F (29°C)	6 Hours	4 Days	20 Days

These times are based on a 6-8 mil dry film thickness. Higher film thicknesses, 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. 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. User should test and monitor exposure levels to insure all personnel are below guidelines.

## PACKAGING, HANDLING & STORAGE

**Shelf Life**

24 months at 40°F-110°F

\*Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.

**Storage Temperature & Humidity**

40°F-110°F (5°-45°C)  
0-100% Relative Humidity

**Storage**

Store Indoors.

# Carbomastic® 18 BT

## PRODUCT DATA SHEET



### PACKAGING, HANDLING & STORAGE

<b>Shipping Weight (Approximate)</b>	2 Gal. Kit - 30 lbs (13.6 kg) 10-Gal Kit - 138 lbs (62.7 kg)
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<b>Flash Point (Setaflash)</b>	Part A: 80°F (27°C) Part B: 90°F (32°C) Mixed: 91°F (33°C)
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### WARRANTY

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