

## SELECTION & SPECIFICATION DATA

<b>Generic Type</b>	Polyurethane
<b>Description</b>	An impact and ice-resistant elastomeric coating that has outstanding physical properties and extreme durability. It is used on the exterior of ship hulls and ice breakers to handle ice impact and abrasion by reducing ice resistance and providing an exceptionally durable film to handle extreme physical abuse. It can also be used on pilings and dock structures wherever physical abuse resistance is needed.
<b>Features</b>	<ul style="list-style-type: none"> <li>• Excellent fresh and salt water resistance</li> <li>• Extreme resistance to impact and abrasion</li> <li>• Outstanding adhesion to steel substrates</li> <li>• High film build; single coat applications</li> <li>• Fast cure to service</li> <li>• Solvent-free; Zero VOCs, Zero HAPs</li> </ul>
<b>Color</b>	Grey (0700)
<b>Dry Film Thickness</b>	508 - 1016 microns (20 - 40 mils) Normally applied in a single coat. Film thicknesses up to 100 mils may be required depending on the use.
<b>Solids Content</b>	By Volume 100%
<b>Theoretical Coverage Rate</b>	39.4 m <sup>2</sup> /l at 25 microns (1604 ft <sup>2</sup> /gal at 1.0 mils) 2.0 m <sup>2</sup> /l at 500 microns (80 ft <sup>2</sup> /gal at 20.0 mils) 1.0 m <sup>2</sup> /l at 1000 microns (40 ft <sup>2</sup> /gal at 40.0 mils) Allow for loss in mixing and application.
<b>VOC Values</b>	<b>As Supplied</b> : 0.00
<b>Topcoats</b>	For color stability in non-immersion applications, topcoat with aliphatic polyurethanes by abrading the surface to produce a rough profile.

## 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.
<b>Steel</b>	Abrasive blast to a minimum Near-White Metal Finish (NACE NO. 2; SSPC SP10) with a 3-5 mil (75-125 microns) dense, angular profile free of peening, as measured by ASTM D 4417. Defects exposed by blasting must be repaired.

## MIXING & THINNING

<b>Mixing</b>	This product requires plural component spray equipment with static mixers.
<b>Ratio</b>	3:1 Ratio (A to B)
<b>Pot Life</b>	3-4 minutes

# Reactamine ICE

## PRODUCT DATA SHEET



### 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>General</b>	Before mixing and applying any material, make sure environmental conditions are satisfactory for application. Weather conditions, and especially dew point, should be constantly monitored in light of the work being done. Final blast cleaning and application of the coating must only be performed when it is clear the temperature of the steel substrate will not fall within 5°F (3°C) of the dew point. Dehumidification and/or temperature control may be necessary to meet this requirement. Use a surface thermometer to frequently monitor the temperature of the steel substrate.
<b>Airless Spray</b>	Heated plural airless will be a fixed-volume ratio 3:1. Standard equipment typically includes heated hoses, drum heaters, pressure feed from 50 gallon steel drums or heated hoppers, recirculation system, automatic high-pressure shut-off system. Please call Carboline Technical Service (1-800-848-4645) for complete pump, static mixer, whip hose and airless gun with tip set up recommendations. Note: Optimum material temperature should be 125° to 140°F (51° to 60°C).  Take care to prevent the mixed material from setting up in your hoses. For best results, keep hoses as short as possible, purge them immediately if work is interrupted, keep them out of direct sunlight and insulated from hot surfaces.

### APPLICATION PROCEDURES

<b>Airless Spray</b>	Material may be applied directly to the prepared surface without the need for additional priming. Apply in overlapping and criss-cross passes to ensure even film build and coverage taking wet film thickness readings frequently. Single-coat applications are common. However, additional coats may be applied without extensive surface preparation within the first 8 hours @75°F/24°C following the previous coat's application. If this time is exceeded, the surface must be roughened by hand sanding or abrasive blasting prior to recoating.
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### APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	25°C (77°F)	1°C (33°F)	-10°C (14°F)	0%
Maximum	60°C (140°F)	100°C (212°F)	50°C (122°F)	90%

The material temperatures represent the optimum temperatures for the Part A (140°F) and the Part B (77°F). This product 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 Hard	Dry to Touch	Final Cure
24°C (75°F)	5 Hours	2.5 Hours	4 Days
32°C (90°F)	3.5 Hours	90 Minutes	2 Days

### CLEANUP & SAFETY

<b>Cleanup</b>	Use Thinner #2 or Acetone. In case of spillage, absorb and dispose of in accordance with local applicable regulations.
<b>Safety</b>	Read and follow all caution statements on this product data sheet and on the MSDS for this product. Employ normal workmanlike safety precautions.

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## PACKAGING, HANDLING & STORAGE

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**Shelf Life** | 12 months

**Shipping Weight  
(Approximate)** | 11 lbs/gal (4.5 kg/gal)

**Storage Temperature &  
Humidity** | 40° - 110°F (4°-43°C)  
0-90% Relative Humidity

## WARRANTY

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