



Simco Coatings Inc.

Manufacturer of Military Spec.,  
Corps of Engrs. Spec, Industrial, &  
Marine Coatings

## TECHNICAL DATA SHEET

### **SIMGUARD-2120 NT** **TWO COMPONENT, HIGH BUILD EPOXY MASTIC FINISH**

**DESCRIPTION:** A two component, low VOC, high build (12 – 15 mils DFT/coat), refined bleached tar epoxy coating. It is used as rust preventive coating for long-term protection to marine & industrial structures exposed to corrosive environments. It exhibits excellent resistance to impact, abrasion and chemical attack. It is compatible with a wide range of primers, but is also self- priming and can be applied to prepared steel or concrete surfaces.

**RECOMMENDED USES:** This product can be used as a tank coating in water and cargo/ballast tanks subject to water and/or petroleum immersion. It is also recommended for interior and exterior of brine, water, process and treating tanks, pipe racks and structures subject to marine or chemical exposure where corrosion protection as well as appearance is desired.

### **TECHNICAL DATA**

<b>GENERIC TYPE:</b>	Non-tar epoxy polyamide
<b>COLOR:</b>	White, Deck Gray, & Black Colors
<b>FLASHPOINT:</b>	81°F
<b>SHELF LIFE:</b>	One year
<b>FINISH:</b>	Semi-gloss
<b>MIXING RATIO:</b>	4:1 base to hardener by volume
<b>POT LIFE @ 77° F:</b>	3-4 hrs.
<b>VOLUME SOLIDS:</b>	84.0 ± 2% depending on color
<b>WEIGHT PER GALLON:</b>	11.0 ± 0.2
<b>RECOMMENDED DFT:</b>	12-16 mils
<b>THEORETICAL COVERAGE:</b>	At 12 mils. - 115 sq. ft./gallon
<b>DRYING TIME:</b>	
<b>A. TO TOUCH</b>	8 hrs.
<b>B. TO TOPCOAT</b>	24 hrs.
<b>C. TO FULL CURE</b>	7 days
<b>VOLATILE ORGANIC COMPOUNDS (VOC):</b>	1.24 lbs./gallon or 149 g/l

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211 Gunther Ln., Belle Chasse, Louisiana 70037 U.S.A.

Tel: (504) 393-9455 Fax: (504) 433-1406 Toll Free: 1-866-95SIMCO

e-mail: [sales@simcocoatings.com](mailto:sales@simcocoatings.com) web: [www.simcocoatings.com](http://www.simcocoatings.com)



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**RECOMMENDED SURFACE PREPARATION:** This product is designed to be applied on compatible and approved shop primers. Prior to the application of this product ensure that the painted substrate is intact and free from contaminates. All damaged areas of primer should be rectified and made good to ensure uniformity of system. The substrate should then be thoroughly degreased in accordance with SSPC-SPI. All dust should be removed from the substrate by using clean brushes and /or to the application of this product. For additional protection in severe corrosion environments additional coats of Simguard-2120 may be necessary for which another shade is recommended thus providing a contrast in multi-coat application. On a primed surface a DFT of 325 microns 13 mils is recommended. When application is made direct on a blast cleaned surface a 400 micron 16 mils DTF is advised. This product is self-priming and can be used on concrete.

### **APPLICATION DATA:**

Apply by airless spray.

Type and Percentage of Thinner: Airless spray: Thinner T-1 approximately 0-5% by volume

Brush, roller: Thinner T-1 approximately 5-10% by volume

Details for airless spray: Output fluid pressure: 180 bar (atm) 2610 psi

Minimum tip orifice: 0.018"

Potlife at 20°C/69°F: 3 hrs.

Cleaning Thinner: T-1

**ADDITIONAL APPLICATION DATA:** At temperatures, below 15°C/59° F an induction time of the mixed components of 30 minutes should be allowed. The recommended method of application is by airless spray. Use of brush or roller should be restricted to small areas only. The substrate temperature before coating should be 4°C/39°F above the dew point. Application below 10°C/50°F or over 50°C/122°F and/or when the relative humidity is over 80% should be avoided. The spray fan should be adjusted depending on the nature and the shape of the substrate to be painted in order that over spray can be restricted to a minimum.

**SAFETY:** During application take normal precautions such as wearing safety gloves, face masks and eye shields. Adequate ventilation must be maintained when applying this product in confined spaces. Observe all statutory local by-laws with respect to health and safety together with the laws governing storage of flammable liquid products. Keep material away from sparks or open flames.

**NON-WARRANTY:** The technical data listed herein has been compiled for your convenience and guidance, and is based upon our experience and knowledge. However, since we have no control over the use of this information or of this product, no warrant, expressed or implied, is intended or given. Simco Coatings, Inc., assumes no responsibility whatsoever for coverage, performance or any other damages, including injuries resulting from the use of this information or of products recommended herein.

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