

Simco Coatings Inc.

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

TECHNICAL DATA SHEET

SIMGUARD-300 H.B. **TWO COMPONENT, SELF-PRIMING** **HIGH BUILD EPOXY FINISH**

DESCRIPTION: A self-priming, high build epoxy polyamide coating that has excellent adhesion and outstanding resistance to acids, alkalis and petroleum solvents. It can be used as a self-priming coating system over marine fiberglass and steel vessels both above and below the waterline. It is an excellent primer / topcoat for marine decks. It can also be used on structural steel, offshore structures, and the interior and exterior portions of tanks. It has outstanding resistance to sour crudes, hydrogen sulfide and salt water. It is not recommended for use with ketones, esters or chlorinated hydrocarbons. It is unaffected by caustic spillage and immersion in concentrations up to 50% at temperatures to 160°F.

TECHNICAL DATA

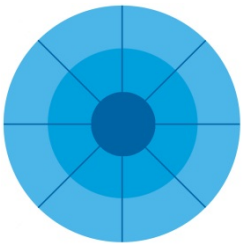
GENERIC TYPE:	Epoxy polyamide
GLOSS & COLOR:	Semi-Gloss Finish in White, Deck Gray, Black, Battleship Gray, Shell Yellow, & Red Brown
FLASH POINT:	61°F
SHELF LIFE:	One year
FINISH:	Semi-glossy
MIXING RATIO:	4: 1 base to hardener by vol.
POT LIFE @ 77°F:	3 hours
VOLUME SOLIDS:	60.0 ± 1.0%
VOLATILE ORGANIC COMPOUND (VOC):	3.1 lbs./gallon
WEIGHT PER GALLON:	12.0 ± 0.2
RECOMMENDED DFT:	5-6 Mils/coat
THEORETICAL COVERAGE:	Est. 950 sq. ft./gallon @ 1 mil DFT
TEMPERATURE RESISTANCE:	250°F, dry heat
DRYING TIME AT 75°F:	
A. TO TOUCH:	1 hour
B. TO TOPCOAT:	8-12 hours
C. TO FULL CURE:	7 days
THINNER:	Simco epoxy thinner R-300
<u>RECOMMENDED SURFACE PREPARATION:</u>	<u>IMMERSION:</u> A "white metal blast cleaning" in accordance with SSPC-SP5-63 specification is recommended.

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NON-IMMERSION: A "Commercial Blast Cleaning" or better in accordance with SSPC-SP6-63 specification is recommended. Mix base and catalyst thoroughly with Jiffy-mixer. Allow to digest 30 minutes in hot weather, one hour in cool weather before use. Add no more than one pint of thinner per gallon of coating.

For airless spray, no thinner is required. Pot life of mixed material is 3 hours. Prior to application of this product ensure that the painted substrate is intact and free from contaminants. All damaged areas of primer and mid-coats 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. Make sure that substrate is complete dry prior to the application of this product.

APPLICATION DATA: Apply by airless or conventional spray.

Devilbliss MBC 510 gun "E" tip and needle 765 air cap.

Type and percentage of Thinner: Simco R-300 or Simco Universal Thinner: 0-3%

Details for Airless spray: Output fluid pressure: 150 bar=2130 PSI

Minimum nozzle orifice: 0.021"

DETAILS FOR AIRSPRAY: Paint pressure pot with agitator, double regulators, moisture trap, ½" ID material hose, 5/16" ID air hose.

Cleaning Thinner: Simco Universal Thinner

ADDITIONAL APPLICATION DATA: The recommended method of application is by airless spray. The spray fan should be adjusted depending on the nature and shape of the substrate to be painted in order that over spray can be restricted to a minimum.

The substrate temperature before coating should be 4°C/39°F above 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.

SAFETY PRECAUTIONS:

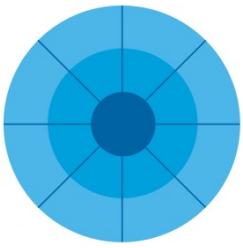
- (A) Use normal precautions such as gloves and facemasks.
- (B) Adequate ventilation must be maintained.
- (C) Explosion proof lights and electrical equipment.
- (D) Non-sparking shoes and tools for workers in area.
- (E) This product contains flammable materials. Forbid all flames, smoking and welding in work area.
- (F) Avoid breathing of vapor and contact with skin and eyes. If product comes in contact with skin or eyes, wash thoroughly with water and obtain immediate medical attention.

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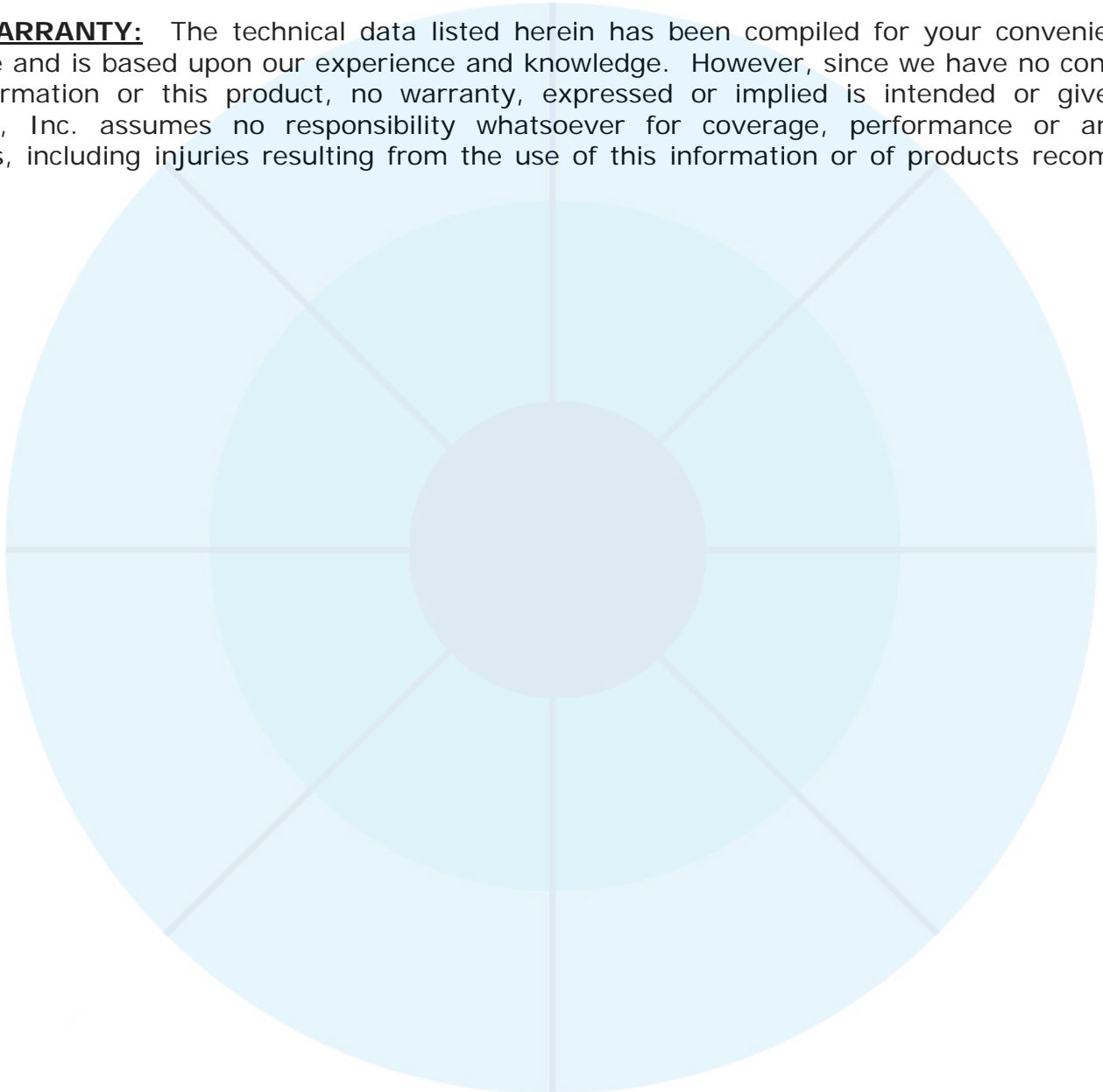


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