



**Simco**  
*We've Got You Covered*

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## **SIMTHANE 902-HS3** **HIGH SOLID POLYURETHANE FINISH**

**Description:** A two-component high solids aliphatic acrylic polyurethane coating which cures to a very hard, high gloss flexible coating with outstanding color retention. It builds a high film thickness in one coat and has excellent hiding power. It meets the VOC requirement for stationary sites. This coating has exceptional resistance to weathering and severe environment. Used for exterior or interior applications wherever a superior gloss and color retention finish is desired, such as storage tanks, structural steel, pipelines, production equipment and offshore platforms etc.

**Recommended Uses:** Permanent finish coat for most severe marine or industrial exposure.

### **Technical Data**

<b>Color and Finish:</b>	Available in various Colors; (High Gloss Finish)	
<b>Mixing Ratio:</b>	83:17 by volume	
<b>Mass/Density:</b>	Approx. 10.5 lbs./Gal.	
<b>Solids by Volume:</b>	58± 2% depending upon the color	
<b>Volatile Organic Compound (VOC):</b>	2.8 to 3.0 lbs./gal. or 335-360 grm/Liter. Depending on the color	
<b>Recommended DFT:</b>	1.5-3.0 Mills	
<b>Theoretical Coverage @ 1M DFT:</b>	Approx 950 sq. ft./gal	
<b>Touch Dry After:</b>	1-2 Hours @ 75° F	
Overcoating Interval:	Min. 8 Hours @ 75° F	
Full Cure:	5 Days	
Temperature Resistance (Dry):	250 °F	
Shelf Life:	At least 18 months	
Flash Point:	Base: 76°F	Hardener: 117°F

### **Surface Preparation:**

Prior to the 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. All dust should be removed from the substrate by using clean brushes and /or dry compressed airline. Ensure that the substrate is completely dry prior to the application of this product. For added protection and embellishment additional coats may be applied.

### **Mixing Instructions:**

Base to hardener 83:17 by volume. Power agitate base component to uniform consistency before combining, then again after combining. Do not vary proportions. The substrate temperature must be above 41°F, the relative humidity should not be more than 85% during application and curing. Temperature of the mixture of base and hardener during mixing and application should be above 59°F, otherwise more solvents must be used to obtain application viscosity. This results in lower sag resistance and slower cure. Thinner should be added after mixing components.

Induction Time:	None
Pot Life:	3 Hours at 75°F

### **Application Date:**

Apply by conventional or airless spray, brush, roller.

### **Airless Spray:**

Nozzle Orifice:	Approx. 0.016-0.019 inches
Nozzle Pressure:	1900-2400 p.s.i.
Thinner Volume:	0% - 6% of Universal Thinner

**Air Spray:**

Nozzle Orifice:	Approx. 0.078 inches
Nozzle Pressure:	43 p.s.i. (approx. 3 @ 15 MPA)
Thinner Volume:	0% - 6% of Universal Thinner

**Brush Roller:**

902-HS3 is formulated to give excellent results when roll or brush applied. Use Universal Thinner only if needed.

**Safety Precautions:**

- (A) Use normal precautions such as gloves, facemasks.
- (B) Adequate ventilation must be maintained.
- (C) Explosion proof lights & electrical equipment.
- (D) Non-Sparking shoes & 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, contact with skin or eyes. If product comes in contact with skin or eyes, wash thoroughly with water and obtain medical attention.

**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 of this product, no warranty 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 use of this information or of products recommended herein.

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