

Simco Coatings Inc.

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

## TECHNICAL DATA SHEET

### **SSPC PAINT #20, TYPE-II (ORGANIC)** **ZINC RICH EPOXY PRIMER**

**DESCRIPTION:** This Epoxy-Polyamide two component Zinc Rich Coating is designed to conform the specific composition and performance requirement of Steel Structures Painting Council (SSPC) Paint Specification No. 20, Type-II (Organic).

#### **PRINCIPAL CHARACTERISTICS:**

- Excellent rust preventative properties in adverse or chemically polluted atmospheres.
- Easy application by airless spray up to 6.0 mils (150 Microns) dry film thickness.
- Good adhesion properties on sandblasted steel where a hard durable chemical resistant nonporous coating is desired.
- Excellent water and weather resistance for interior and exterior use.
- Good impact resistance

### **TECHNICAL DATA**

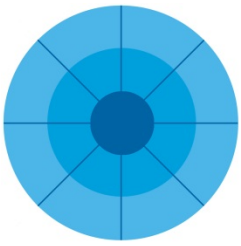
<b>COLOR AND FINISH:</b>	Gray, Flat
<b>MASS DENSITY (MIXED):</b>	Approx 24.0 lbs./gal.
<b>SOLIDS BY WEIGHT:</b>	89.0%
<b>SOLIDS BY VOLUME:</b>	Approx. 64.0%
<b>TOTAL ZINC DUST PIGMENT (ASTM D520,TYPE-I)</b>	
<b>% BY WEIGHT OF TOTAL SOLIDS:</b>	86.00 (Min.)
<b>VOC (BEFORE THINNING):</b>	2.50 lbs./gallon or 300 g/l
<b>THEORETICAL SPREADING RATE:</b>	
<b>@ 1 MIL DFT:</b>	1020 Sq. Ft. /gal.
<b>RECOMMENDED DRY FILM THICKNESS:</b>	4-6 Mils (100-150 Microns)
<b>TOUCH DRY AFTER:</b>	2 Hrs.
<b>DRY HARD AFTER:</b>	6 Hrs.
<b>MAX. INTERVAL BEFORE OVERCOATING:</b>	7 Days
<b>FULL CURE AFTER:</b>	7 Days
<b>TEMPERATURE RESISTANCE (DRY):</b>	250°F (12 °C)
<b>SHELF LIFE (COOL &amp; DRY PLACE):</b>	12 months
<b>FLASH POINT (TCC):</b>	Base 108°F (42°C) Hardener 95°F (35°C)

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**PACKAGE:**

A two Component material with base and curing agent supplied in 1 and 5 Gallons Containers  
Mix ratio 4:1 by volume.

**RECOMMENDED SUBSTRATE CONDITIONS:**

Steel: Blast cleaned to a minimum grade SSPC-SP10 (SA2 ½) The surface must be perfectly dry.

**INSTRUCTIONS FOR USE:**

Power agitate base component to uniform consistency before combining, then again after combining. Do Not vary proportions.

**Substrate Temperature:** During application and the first 24 hours of curing, the substrate temperature must be above 41°F (5°C) and at least 5°F ( 3°C) above the dew point.

**Mixing instructions:** Ratio: base to hardener 4:1 by volume  
The temperature of the mixture of base and hardener during mixing and application should be above 59 °F (15°C), 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 the components.

Very good mechanical mixing of base and hardener is essential in view of the paste consistency.

**POTLIFE:**

4 Hours At 73 °F

**CONVENTIONAL SPRAY**

**Manufacturer:**

DeVilbiss

Binks

**Gun Model:**

MBC or JGA #18 or #62

**Tip-Air Cap Combination:**

704E

66PE

Fluid hose should be 3/8" I.D. with a maximum length of 50 feet. Pot should always have dual regulation and be kept at same elevation as spray gun.

**AIRLESS SPRAY**

**Manufacturer:**

Graco

Binks

DeVilbiss

**Gun Model:**

205-590

Model 500

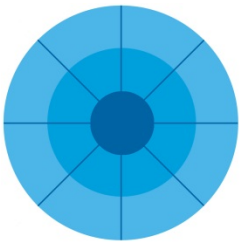
JGN-501

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**Pump:**

Bulldog Mercury 5C QFA-519  
Hose should be 3/8" I.D. minimum, but 1/4" whip end section may be used for ease of application. A maximum length of 100 feet is suggested. Best results will be obtained using a .018"-.021" tip at 2400-2700 p.s.i.

**THINNING REQUIREMENT:**

Recommended Thinner:	T-81772 Type II Epoxy Thinner
Airless Spray:	0-10% by Volume
Conventional Spray:	5-15%% by Volume
Clean-up Thinner:	T-81772 Type II Epoxy Thinner

**CAUTION:**

Contains flammable solvents. Keep away from sparks and open flames. Use only grounded explosion proof equipment in accordance with the National Electric Code. Workmen must use nonferrous tools, wear conductive and non-sparking shoes in areas where explosion hazards exists. In confined areas, workmen must wear fresh airline respirators, protective clothing and gloves. Avoid contact with skin, breathing of vapor or spray mist ingestion. Keep out of reach of children.

**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 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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