



## PRODUCT INFORMATION

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*Revised on April 2012*

### SP 2000 SERIES

#### **PRODUCT PROFILE:**

Novocoat Protective Coatings consistently produces products of exceptional chemistry delivering the best in corrosion protection, while being safe for our environment and user friendly. Because SP2000 is 100% solids, it contains no volatile organic compounds or solvents, and may be safely applied in confined areas with good ventilation. Novocoat's SP2000 has been a leader in hybrid novolac coating technology and since 1990 is a standard for lining ductile pipe used in sewage gathering systems. Throughout wastewater transportation and treatment plants, Novocoat Protective Coatings can be found protecting steel, ductile and concrete substrates.

#### **PRODUCT FEATURES and BENEFITS:**

- 100% Solids, No VOCs
- Excellent immersion resistance

#### **CHEMICAL RESISTANCE**

- Acetic Acid up to 10%
- Ammonium Hydroxide 25%
- Brine Water
- Copper Sulfate
- Diesel Fuel
- Fatty Acids
- Gasoline
- Hydrochloric Acid up to 20%
- Mineral Spirits
- Potassium Hydroxide 50%
- Crude Oil
- Caster Oil
- Ethylene Glycol
- Sodium Chloride
- Sodium Hydroxide 50%
- Sulfuric Acid 75%
- Sewage
- Alkalis
- non-potable Water
- Wine
- Ethanol

#### **PHYSICAL PROPERTIES**

Color	Dark Gray, Light Gray, Blue, Black, White and Rust Red
Container Size	1 gallon kits, 4 gallon kits, bulk 5 gallon pails, and 50 gallon drums
Coverage per gallon (Theoretical)	160 sq. ft. @10 mils thickness
Flash Point	greater than 250°F (121°C)
Pull-Off Adhesion Test ASTM D 4541	Minimum adhesion is 2850 psi
Specific Gravity	Resin: 1.48; Hardener: 0.97
Volatile Organic Compounds (VOC)	0 grams/liter

Weight per gallon	10.86 lbs
Pot Life @ 40°F (4°C)	8 hours 30 minutes
75°F (24°C)	1 hour 5 minutes
92°F (33°C)	55 minutes
Cure Time @ 70°F (21°C): Re-coat	24 hours
Window	2 days
Light Loading	3 days
Immersion (Aqueous) Service	7 days
Full or Chemical Service	

Note: Do not keep the blended coating in the original container unless immediate use is planned. Otherwise, exotherm—heat created during the curing process—will considerably shorten the pot life. Pour the coating into a rolling tray or large aluminum-basting pan. Try to keep the depth of the coating in the tray below 3/8”.

**SERVICE TEMPERATURE**

Dry Service	-30°F to 250°F (121°C)
Spill/Splash	200°F (93°C)
Immersion Service*	170°F (76.7°C)

\*Water Immersion — 190°F (90°C) — Atlas test cell for 60 days, unaffected

**HANDLING PROPERTIES:**

Mix Ratio, by volume	3 parts Resin / 1 part Hardener
Working Life, 200-gram mass	40 minutes @ 25°C (77°F)
	20 minutes @ 43°C (110°F)
Consistency	Flowable Liquid
Thinner	TH 1170
Clean-Up	MEK

**APPLICATION GUIDELINES:**

**Surface Preparation**

For best adhesion properties, surfaces should be clean and free of any dirt, oils, greases, or salts prior to application. NACE-2, SSPC-PC-10 Near White with jagged profile of 2.5 – 3.5 mils.

Recommended Total Dry Film Thickness (TDFT) ..... 15 – 35 mils Plural Spray, 6 – 15 mils Single Leg or Hand Application,

**Guidelines for Plural Component Spray Method**

Tip Size	.025 – .029 reversible type
Diameter of Part A Fluid Line	1/2" ID
Diameter of Part B Fluid Line	3/8" ID
Spray Line	1/2" ID x 50 feet maximum
Diameter of Whip	1/4 – 3/8" ID
Length of Whip	20 feet
Power Ratio Pump	Graco 56:1 or greater
Static Mixer	1/2" ID x 12" in length behind mixing valve
Part A Resin Temperature	130 – 135°F in reservoir tank
Part B Hardener Temperature	90 – 95°F in reservoir tank

**Guidelines for Single-Leg or Hot Pot Application**

Part A resin and Part B hardener should be heated individually to 75 – 85 deg F before mixing so product will atomize properly in delivering paint to the substrate. Mixed product should be sprayed within 20 minutes after mixing.

Tip Size	0.023 – 0.027
Pump Size	56:1 or greater
Hose Length/Diameter	50 ft x 3/8"
Whip Length/Diameter	10 ft x 1/4"
Work Life, 4 gallons at 32°C (90°F):	
No Thinner .....	25 minutes
3 – 5% Thinner .....	35 – 40 minutes

Consult with Ergon Armor representative before adding thinner to product or using hose lengths/diameters outside the stated recommendations.

**Brush / Roller Application**

This material may be applied with brush or roller. Be aware of working life when using brush or roller application.

**Holding Primer Application**

To use as a Holding Primer, this product should be reduced with Novocoat thinner to achieve a dry film thickness of 3 – 5 mils on newly-blasted steel. The amount of thinner is dependent on equipment and application temperature. Consult your Novocoat technical representative for recommendations on thinning. The minimum pump ratio should be 30:1. Refer to the Handling section for information on pot life. Tack-free time of a 5-mil coating is 5 – 8 hours depending on temperature, humidity, and amount of thinner used. The holding primer may be topcoated with Novocoat products within 21 days. SC-3300 Holding Primer is packaged in a manner where up to 20% thinner may be added to the product in the original package with sufficient room in the container for thorough mixing of the hardener.

**CURE SCHEDULE:**

Curing times are affected by the amount of air ventilation and circulation as well as the relative humidity level. Heat curing may be used to decrease return-to-service time and increase chemical resistance properties.



<b>Temperature To Touch</b>	<b>Hard Dry</b>	<b>Recoat Window</b>
10°C (50°F)	8 – 10 hours	36 – 40 hours Up to 14 days
25°C (77°F)	3 – 4 hours	24 – 26 hours Up to 14 days
60°C (140°F)	1 – 2 hours	6 – 8 hours * Not recommended

\* If an additional coat is required, surface must be abraded to create a slight profile to maximize adhesion.

**STORAGE:**

Products should be stored in a cool, dry location that is well ventilated. Keep lids tightly closed on containers when not in use. Store only in original containers. Keep away from direct sunlight and other sources of extreme heat.

**SAFETY**

Mixes and applications of this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and material safety data sheets before using. While all statements, technical information, and recommendations contained herein are based on information our company believes to be reliable, nothing contained herein shall constitute any warranty, express or implied, with respect to the products and/or services described herein and any such warranties are expressly disclaimed. We recommend that the prospective purchaser or user independently determine the suitability of our product(s) for their intended use. No statement, information or recommendation with respect to our products, whether contained herein or otherwise communicated, shall be legally binding upon us unless expressly set forth in a written agreement between us and the purchaser/user.

Please contact ErgonArmor for further information at 877.982.7667 or FAX 601-933-3381. For all Terms and Conditions of Sale see [ergonarmor.com](http://ergonarmor.com).

**ORDERING INFORMATION**

For additional information, prices, or to place an order, please contact your ErgonArmor sales representative. If you do not know the name of your sales representative, call 877-98ARMOR.

