

Revised on April 2012

SC 3300 SERIES

DESCRIPTION:

SC-3300 Series is a densely crosslinked 100% solids epoxy novolac that provides superior, long-term chemical resistance, good immersion service, and corrosion protection. The outstanding adhesion properties of SC-3300 Series make it ideal for use on marginally prepared substrates while delivering maximum performance. Extended recoat window is also achievable due to the unique formulation package that provides outstanding intercoat adhesion to previously epoxy-coated substrates.

ADVANTAGES & BENEFITS:

- Long-term chemical resistance & corrosion protection
- Environmentally friendly, no VOC's
- Excellent chemical immersion service
- Outstanding adhesion
- Good flexibility to reduce coating stress due to thermal expansion and contraction
- Plural component & single-leg spray methods

APPLICATIONS:

- High performance tank linings
- Secondary containment coating
- Internal pipeline and vessel coatings

PHYSICAL PROPERTIES:

Property	Test Method	Typical Value
Compressive Strength, 5 days ambient	ASTM C-109	10,000 – 13,000 psi
Hardness, 3 days ambient	ASTM D-2240	87 – 90 Shore
Gloss Level		High Gloss
Pull-off Adhesion, 30 mils DFT bare steel		>3,000 psi
Dry Adhesion, 5 days ambient	ASTM D-4541	>3,000 psi
Wet Adhesion, 5 days 70°C water		>3,000 psi
Tabor Abrasion, CS-17 Wheel 1000 cycles / 1 kilogram	ASTM D-4060-95	25 – 35 mg loss
Glass Transition Temperature	DSC	58 – 62°C (ambient 5 days) 72 – 75°C (heat cured)

CHEMICAL RESISTANCE

- Resistant to all type of crude oil and refined petroleum products
- Good resistant to inorganic acids and alkalis

Consult with Ergon Armor Technical Service for additional information on immersion services especially where continuous heated immersion services >100°F are involved.

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)
Color	Gray, Beige, Light Blue
Consistency	Flowable Liquid
Thinner	TT 1760 or TH 1170
Clean-Up	MEK or Novocoat Thinner

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

Guidelines for Plural Component Spray Method

Tip Size	.025 – .029 reversible type
Diameter of Part A Fluid Line	½" ID
Diameter of Part B Fluid Line	¾" ID
Spray Line	½" ID x 50 feet maximum
Diameter of Whip	¼ – ¾" ID
Length of Whip	20 feet
Power Ratio Pump	Graco 56:1 or greater
Static Mixer	½" 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	20 minutes
3 – 5% Thinner	30 – 35 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.

Temperature To Touch Hard Dry Recoat Window

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.

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.

