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SELECTION & SPECIFICATION DATA

Туре	Cycloaliphatic Amine Cured Novolac Epoxy		
Description	Novocoat SC2200 Rapid Set Pipe Coating is a 100% solids novolac epoxy coating that is fast-setting and cures down to 0°F (-17°C). Cured films up to 40 mils DFT provide an excellent balance of flexibility and toughness making it highly versatile for a variety of petrochemical and industrial applications. Novocoat SC2200 Rapid Set Pipe Coating is available in spray grade (plural component application only) and bag kits for brush, roller, or trowel applied touch-up and girth weld repairs.		
Features	 100% solids, no VOCs 40 mils per coat in a single coat application Resistance to cathodic disbondment Good flexibility at colder temperatures Good abrasion and impact resistance Excellent thermal cycling properties Excellent corrosion protection Quick return-to-service 		
Uses	 External pipe lining Internal pipeline and vessel lining Girth weld coating High performance tank lining 		
Color	Putty		
Finish	Gloss		
Dry Film Thickness (DFT)	Total Dry Film Thickness (TDFT) should range 20 – 40 mils per coat for optimum performance. This range of thickness is achievable in a single coat with proper atomization, good technique, and proper substrate temperature. For applications requiring TDFT's above 50 mils, two coats should be applied.		
Solids Content	99 – 100% by volume		
SUBSTRATES &	SURFACE PREPARATION		
All	Substrate must be clean, dry and free of contaminants.		
Steel	Immersion: SSPC-SP 10/NACE 2 Near White Metal Blast with angular profile of 2.5 – 3.5 mils.		
	Non-immersion: SSPC-SP 6/NACE 3 Commercial Blast with angular profile of 1.5 – 3.0 mils, SSPC-SP 2 Hand Tool or SSPC-SP 3 Power Tool Cleaning are suitable for mild environments.		
	Self-priming on steel.		
Previously Painted Surfaces	Consult with ErgonArmor Technical Service.		

MIXING & THINNING

Ratio	3A:1B by volume		
Mixing	Due to the rapid set of this material, plural spray is the only method recommended for application other than for girth weld repairs.		
Thinning	Consult with ErgonArmor representative before adding thinner to product or using hose lengths/ diameters outside the stated recommendations.		
Pot Life	35 minutes at 41°F (5°C) 25 minutes at 59°F (15°C) 17 minutes at 77°F (25°C) 9 minutes at 95°F (35°C)		
	Pot life is shorter at higher temperatures. A larger volume of mixed material will have a shorter pot life than a smaller volume.		
Cleanup	MEK or Acetone		
APPLICATION	APPLICATION GUIDANCE		
Temperature	Substrate temperature should be $35^{\circ}F - 110^{\circ}F$ (2°C - 43°C) and a minimum of 5°F (3°C) above the dew point to achieve best adhesion. Maximum substrate temperature should be kept to 140°F (60°C). Contact ErgonArmor for conditions where the substrate temperature exceeds 140°F (60°C).		
Spray Application	The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.		
Airless Spray Plural Component	Due to the fast reactivity of this coating system, this product should be applied via heated plural component spray systems only.		
	Tip Size: 0.025 – 0.029 reversible type Part A Fluid Line: 1/2 in ID Part B Fluid Line: 3/8 in ID Spray Line: 1/2 in ID x 50 feet maximum Whip: 1/4 in ID Whip Length: 10 feet maximum Pump Size: 56:1 or greater Output: 4,000 - 6,000 psi, filter removed Static Mixer: 1/2 in ID x 12 in behind mixing valve Part A Resin: 135°F – 140°F (57°C – 60°C) Part B Hardener: 90°F – 95°F (32°C – 35°C)		
Touch-ups & Girth Weld Repairs	Manually mixed material should be brushed, rolled, or trowel applied within the specified pot life of the mix.		
Brush	Medium bristle brush		
Roller	Short-nap synthetic roller cover with phenolic core		
Trowel	Flexible plastic trowel or grout float		

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CURE SCHEDULE & RECOAT WINDOW

TEMPERATURE	MINIMUM RECOAT	MAXIMUM RECOAT	RETURN TO SERVICE (HYDROCARBON IMMERSION)	
50°F (10°C)	1 hour	24 hours	24 hours	
77°F (25°C)	30 minutes	2 hours	4 hours	
95°F (35°C)	15 minutes	45 minutes	3 hours	
Dry-to-touch: 1.5 hours at 77°F (25°C)				

Return-to-service varies with cargo. Consult ErgonArmor Technical Service for guidance.

SAFETY

- 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 safety data sheets before using.
- Ventilation Provide thorough air circulation during and after application until the material has cured when used in enclosed areas.

ESTIMATING & PACKAGING

Theoretical Coverage	80 square feet per gallon at 20 mils 40 square feet per gallon at 40 mils Allow for loss in mixing and application
Package Sizes	Putty, 6 oz (170 g) 2-part Bag Kit Item #: M-R3470-170G-01
	Putty, 4 x 0.24 gal (0.9 L) Kit Case Each 0.24 gal (0.9 L) Kit includes - Part A Resin Beige, 0.18 gal (0.7 L) Jar - Part B Hardener Black, 0.06 gal (0.2 L) Jar - Mixing knife, chip brush, and spreader Item #: M-R3470-QTCS-01
	Putty, 20 gal (75.6 L) Kit - Part A Resin Beige, 3 x 5 gal (19 L) Pails - Part B Hardener Black, 5 gal (19 L) Pail Item #: M-R3470-20GLKT-01
	Putty, 100 gal (397 L) Kit - Part A Resin Beige, 25 gal (95 L) Drum - Part A Resin Beige, 50 gal (189 L) Drum - Part B Hardener Black, 25 gal (95 L) Drum Item #: M-R3470-100GLKT-01
	Putty, 200 gal (757 L) - Part A Resin Beige, 3 x 50 gal (189 L) Drums

Part A Resin Beige, 3 x 50 gal (189 L) Drums
 Part B Hardener Black, 50 gal (189 L) Drum
 Item #: M-R3470-200GLKT-01

Storage & Shelf Life Maintain product in original packaging and sealed until ready for use. Estimated shelf life is 12 months when stored in a dry area at 75° F (24°C). Actual shelf life may vary with storage conditions. Do not store below 40°F (4°C) or above 110°F (43°C).

If there is any question with respect to the quality of the components, check reactivity prior to use. Consult ErgonArmor Technical Service for assistance.

TYPICAL PHYSICAL PROPERTIES

TEST METHOD	SYSTEM	RESULTS
Compressive strength, 5 days ambient temperature ASTM C109		12,000 – 15,000 psi
Wet adhesion ASTM D4541 Wet 5 days 158°F (70°C) water	Blasted steel 1 coat	>2,500 psi
Dry adhesion ASTM D4541	Blasted steel 1 coat	>2,700 psi
Abrasion resistance ASTM D4060	1000 cycles, CS17 wheel 1000 gm load	0.59 mils loss of DFT 1,750 cycles per mil
Impact resistance ASTM G14-88		70 – 80 in-lbs
Cathodic disbondment CSA Z245.20-06	28 days at 185°F (85°C)	4.9 mm disbondment
Cathodic disbondment CSA Z245.20-06	28 days at 77°F (25°C)	1.1 mm disbondment
Dielectric strength (in paraffinic oil) ASTM D149	Blasted steel 1 coat	730 – 760 volts/mil

TEMPERATURE RESISTANCE

SERVICE	MAXIMUM TEMPERATURE
Dry, continuous	300°F (149°C)
Dry, intermittent	350°F (177°C)
Under insulation	300°F (149°C)

Temperature limitations will vary with cargo. Consult ErgonArmor Technical Service for guidance.

Discoloration and loss of gloss occur above 200°F (93°C) but do not affect performance.

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TERMS AND CONDITIONS OF SALE

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Division of Ergon Asphalt & Emulsions, Inc. | P.O. Box 1639, Jackson, MS 39215-1639 | 601-933-3381 Fax | 601-933-3595 Phone | 877-98ARMOR Toll-Free | ergonarmor.com