Novocoat™ SG2500 HB Lining

SELECTION & SPECIFICATION DATA

Type
Polyamide Epoxy

Description
Novocoat SG2500 HB Lining is a high build, high flexural strength epoxy lining for concrete, steel, or ductile iron. Damp surface tolerant and resistant to hydrogen sulfide attack, it is also well suited for municipal wastewater sewers, manholes, and wet wells.

Features
- 100% solids, no VOCs
- H_2S resistant
- Moisture tolerant
- Long-term wear protection
- 125 mils in a single coat
- Meets AWWA C210 performance requirements

Uses
- Tank linings
- Secondary containment
- Manholes
- Lift stations
- Pipe coatings and linings

Color
Light green

Finish
Gloss

Dry Film Thickness (DFT)
60 - 250 mils per coat

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.

Concrete or Concrete Masonry Units (CMU)
Concrete must be cured 28 days at 75°F (24°C) and 50% relative humidity or equivalent. Prepare surfaces in accordance with SSPC-SP 13/NACE 6. Required surface profile is CSP 4-7. Voids in concrete surfaces may require filling. Mortar joints should be cured a minimum of 15 days. Prime with Novocoat SC1100 Primer/Sealer.

Previously Painted Surfaces
Consult with Armor Technical Service Department.

MIXING & THINNING

Ratio
2A:1B by volume

Mixing
Power mix separately, then combine and power mix.

Thinning
Spray: Do not thin
Brush: Up to 16 oz/gal (12%) with Novocoat TH1710 Thinner
Roller: Up to 16 oz/gal (12%) with Novocoat TH1710 Thinner

Cleanup
MEK or Acetone

APPLICATION GUIDELINES

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
Tip Size: 0.025 - 0.029 reversible type
Part A Fluid Line: 1/2-inch ID
Part B Fluid Line: 3/8-inch ID
Spray Line: 1/2-inch ID x 50 feet maximum
Whip: 1/4-inch - 3/8-inch ID
Whip Length: 20 feet
Pump Size: 56:1 or greater
Output: 4,000 - 6,000 psi, filter removed
Static Mixer: 2 x 1/2-inch ID x 12-inch (24-inches total length) behind mixing valve
Part A Temperature: 130°F - 135°F (54°C - 57°C)
Part B Temperature: 90°F - 95°F (32°C - 35°C)

Brush & Roller
This material may be applied with brush or roller. Be aware of work life when using brush or roller application.

Brush
Medium bristle brush.

Roller
Short-nap synthetic roller cover with phenolic core.

CURE SCHEDULE & RECOAT WINDOW

TEMPERATURE	MINIMUM RECOAT	MAXIMUM RECOAT	RETURN TO SERVICE (HYDROCARBON IMMERSION)
50°F (10°C)	35 minutes	24 hours	4 days
77°F (25°C)	15 minutes	24 hours	12 hours
140°F (60°C)	Not recommended	Not recommended	4 hours

Return-to-service varies with chemical exposure. Consult Armor Technical Service for guidance.

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PACKAGING, ESTIMATING & HANDLING

ITEM#	PRODUCT	PACKAGING
M-SG2510A-5GLB-01	Novocoat SG2500 HB Lining - Part A Resin, Light Gray	5 gal (19 L) Pail
M-SG2408B-5GLB-01	Novocoat SG2500 HB Lining -Part B Hardener, Green	5 gal (19 L) Pail
M-SG2510A-DRWL-01	Novocoat SG2500 HB Lining - Part A Resin, Light Gray	50 gal (189 L) Drum
M-SG2408B-DRWL-01	Novocoat SG2500 HB Lining - Part B Hardener, Green	50 gal (189 L) Drum

Theoretical Coverage

53 square feet per gallon at 30 mils
12.8 square feet per gallon at 125 mils
Allow for loss in mixing and application.

Storage & Shelf Life

Maintain products in original packaging and sealed until ready for use. Estimated shelf life is 12 months when stored in a dry area at 70°F (21°C). Actual shelf life may vary with storage conditions.

If there is any question with respect to the quality of the components, check reactivity prior to use. For assistance consult with Armor.

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.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	SYSTEM	VALUE
Dry adhesion ASTM D4541	Blasted steel 1 coat	>3,000 psi
Dry adhesion ASTM D4541	Concrete 1 coat	>400 psi concrete failure
Wet adhesion ASTM D4541 5 days 158°F (70°C) water	Blasted steel 1 coat	>2,500 psi
Abrasion ASTM D4060 1000 cycles, CS17 wheel 1000 gm load	Blasted steel 1 coat	80 mg loss 770 cycles per mil
Compressive strength ASTM C109	Blasted steel 1 coat	12,000 – 15,000 psi
Hardness ASTM D2240	Blasted steel 1 coat	83 – 85 Shore D
Elongation ASTM D638		5%

Meets the performance requirements of AWWA C210

TEMPERATURE RESISTANCE

SERVICE	MAXIMUM TEMPERATURE
Dry, continuous	220°F (104°C)
Dry, intermittent	250°F (121°C)
Under insulation	175°F (79°C)

Temperature limitations will vary with chemical exposure. Consult Armor Technical Service for guidance.

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

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