Novocoat™ ER1000 Elastomeric Liquid

SELECTION & SPECIFICATION DATA

Type
Flexible Epoxy Coating

Description
This versatile, surface tolerant elastomeric industrial maintenance coating and joint compound offers moderate chemical resistance and outstanding adhesion to a wide variety of substrates including asphalt and concrete. Forms excellent barrier over sand, dirt or rock when applied to suitable geotextiles.

Features
- 100% solids, no VOCs
- Excellent impact resistance
- Excellent flexibility, >300% elongation
- Moderate chemical resistance

Uses
- Crack-bridging base coat
- Expansion joint filler
- Crack filler
- Secondary containment lining
- Liner over earth and geotextile

Color
Light gray, blue

Finish
Gloss

Dry Film Thickness (DFT)
15 - 20 mils per coat on horizontal surfaces
6 - 10 mils on vertical surfaces

Solids Content
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 a minimum of 7 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 3-5. 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
1A:1B by volume

Mixing
Mix equal parts of the resin and hardener thoroughly until a color of material is uniform and free of streaks.

Thinning
Do not thin

Pot Life
40°F (4°C) 3 hours
75°F (24°C) 2 hours
92°F (33°C) 1 hours 30 minutes

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

APPLICATION GUIDELINES

Spray Application Guide
The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.

Airless Spray Plural Component
Contact Armor Technical Service for guidance.

Airless Spray Single Leg or Hot Pot
Tip Size: 0.021-inch
Pump Size: 56:1 or greater
Output: 3500 – 5500 psi, filter removed
Hose Length: 50 ft x 3/8-inch ID
Whip Length: 6 – 10 ft x 1/4-inch ID

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

Brush/Roller
Can be brush or roller applied. Be aware of work life when using brush or roller application.

CURE SCHEDULE & RECOAT WINDOW

Recoat window at 75°F (24°C)	14+ days
Tack free at 75°F (24°C)	24 hours
Full cure at 75°F (24°C)	7 days

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PACKAGING, ESTIMATING & HANDLING

ITEM#	PRODUCT	PACKAGING
M-ER1010-2GLBK-01	Novocoat ER1000 Elastomeric Liquid Kit Each kit includes:	20 lbs (9.1 kg) / 2 gal (7.6 L)
	- Part A Resin, Light Gray	12 lbs (5.4 kg) / 1 gal (3.8 L)
	- Part B Hardener	8.1 lbs (3.7 kg) / 1 gal (3.8 L)
M-ER1050-2GLBK-01	Novocoat ER1000 Elastomeric Liquid Kit Each kit includes:	20 lbs (9.1 kg) / 2 gal (7.6 L)
	- Part A Resin, Blue	12 lbs (5.4 kg) / 1 gal (3.8 L)
	- Part B Hardener	8.1 lbs (3.7 kg) / 1 gal (3.8 L)
M-ER1010-10GLKT-01	Novocoat ER1000 Elastomeric Liquid Kit Each kit includes:	
	- Part A Resin, Light Gray	60 lbs (27 kg) / 5 gal (19 L)
	- Part B Hardener	40.5 lbs (18.4 kg) / 5 gal (19 L)
M-ER1050-10GLKT-01	Novocoat ER1000 Elastomeric Liquid Kit Each kit includes:	
	- Part A Resin, Blue	60 lbs (27 kg) / 5 gal (19 L)
	- Part B Hardener	40.5 lbs (18.4 kg) / 5 gal (19 L)

Theoretical Coverage

267 square feet per gallon at 6 mils
80 square feet per gallon at 20 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	VALUE
Flash point	>240°F (115°C)
Impact strength at 80°F (26.5°C)	65 ft-lb
Tensile strength	287 psi
VOC	0 g/l
Elongation	>300%
Specific gravity	Resin: 1.44 Hardener: 0.97
Hardness, ASTM D2240	60 Shore D

SERVICE TEMPERATURE

SERVICE	MAXIMUM TEMPERATURE
Dry	200°F (93°C)
Splash/spill	200°F (93°C)
Immersion service	150°F (66°C)

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

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