Novocoat™ SC1100 Primer/Sealer

SELECTION & SPECIFICATION DATA

Type
Epoxy Primer

Description
Novocoat SC1100 Primer/Sealer is a penetrating, moisture-tolerant epoxy primer that seals porous concrete surfaces to prevent outgassing and associated blisters and pinholes. It promotes adhesion to a variety of finish coats.

Features
- No VOCs
- Exceptional wetting characteristics
- Low stress, highly flexible film
- Adheres to damp concrete
- Green concrete primer (7+ days)

Uses
- Concrete primer/sealer
- Binder for Novolite Aggregate
- Universal binder for trowel applied flooring
- Binder for concrete resurfacing mortar

Colors
Clear, light gray

Finish
Gloss

Dry Film Thickness (DFT)
3 - 5 mils per coat

Solids Content
99 - 100% by volume

Limitations
Will lose gloss, discolor, and chalk in sunlight.

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.

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 1 as stand-alone coating, CSP 3-5 under a topcoat. Voids in concrete surfaces may require filling. Mortar joints should be cured a minimum of 15 days.

MIXING & THINNING

Mixing
Thinning not required. Do not mix partial kits. Power mix parts A and B separately, then combine and power mix.

Pot Life

150 GRAM SAMPLE

TEMPERATURE	HOURS/MINUTES
50°F (10°C)	19 hrs 46 min
77°F (25°C)	6 hrs 9 min
122°F (50°C)	0 hrs 48 min

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 GUIDELINES

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

Airless Spray Single Leg or Hot Pot
Pump Size: 30:1 or greater
Hose Length: 200 ft x 3/8-inch ID
Whip Length: 10 ft x 1/4-inch ID

Part A resin and Part B hardener should be heated individually to 75°F - 85°F (24°C - 29°C) before mixing so product will atomize properly in delivering paint to the substrate.

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

Brush
Medium bristle brush.

Roller
Short-nap synthetic roller cover with phenolic core.

CURE SCHEDULE & RECOAT WINDOW

SUBSTRATE	MINIMUM RECOAT	MAXIMUM RECOAT
77°F (25°C)	24 hours	14 days
100°F (37°C)	4 hours	48 hours

Use Novocoat SC1100 Primer/Sealer FC for substrate temperatures 40°F - 70°F (4°C - 21°C).

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PACKAGING, ESTIMATING & HANDLING

ITEM#	PRODUCT	PACKAGING
M-SC1100-SMKT-01	Novocoat SC1100 Primer/ Sealer	1 gal (3.8 L) Kit
	- Part A Resin	5.7 lbs (2.6 kg) Pail
	- Part B Hardener	3.4 lbs (1.5 kg) Jerrican
M-SC1100-LGKT-01	Novocoat SC1100 Primer/ Sealer	4.8 gal (18.7 L) Kit
	- Part A Resin	27 lbs (12 kg) Pail
	- Part B Hardener	16 lbs (7.3 kg) Pail
M-SC1100A-DRUM-01	Novocoat SC1100 Primer/Sealer	
	- Part A Resin	50 gal (189 L) Drum
M-SC1100B-DRUM-01	Novocoat SC1100 Primer/Sealer	
	- Part B Hardener	50 gal (189 L) Drum

Theoretical Coverage

Concrete: 320 - 530 square feet per gallon at 3 - 5 wet mils per coat. 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 Armor Technical Service.

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	SUBSTRATE	VALUE
Dry pull-off adhesion ASTM D4541	Blasted steel 1 coat	>2,500 psi (17 MPa)
Dry pull-off adhesion ASTM D4541	Concrete	>500 psi (3.4 MPa) Concrete failure

SERVICE TEMPERATURE

SERVICE	MAXIMUM TEMPERATURE
Dry, continuous	176°F (80°C)
Dry, non-continuous	203°F (95°C)

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

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