Novocoat SC1100 Primer/Sealer FC

SELECTION & SPECIFICATION DATA

Type
Epoxy Primer

Description
Novocoat SC1100 Primer/Sealer FC is a penetrating, moisture-tolerant epoxy primer designed to cure under cool conditions. It seals porous concrete surfaces to prevent outgassing and associated blisters and pinholes and promotes adhesion to a variety of finish coats. Standard grade Novocoat SC1100 Primer/Sealer is available for warm application conditions.

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

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

Colors
Amber clear

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

Concrete or Concrete Masonry Unit (CMU)
Substrate must be clean, dry and free of contaminants. 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

Ratio
2A:1B by volume

Mixing
Thinning not required. Premix parts A and B separately then combine and power mix at a slow speed for 2 minutes.

Pot Life

150 GRAM SAMPLE

TEMPERATURE	HOURS/MINUTES
32°F (0°C)	2 hrs 47 min
50°F (10°C)	1 hrs 29 min
77°F (25°C)	0 hrs 35 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

Heat parts A and B separately to 75°F - 85°F (24°C - 29°C) before mixing so product atomizes properly in delivering paint to the substrate.

Brush
Medium bristle brush. Be aware of work life when using brush or roller application.

Roller
Short-nap synthetic roller cover with phenolic core.

CURE SCHEDULE & RECOAT WINDOW

SUBSTRATE	MINIMUM RECOAT	MAXIMUM RECOAT
40°F (4°C)	8 hours	48 hours
59°F (15°C)	5 hours	36 hours
70°F (21°C)	4 hours	24 hours

For other installation conditions, consult Armor for guidance.

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PACKAGING, ESTIMATING & HANDLING

ITEM#	PRODUCT	PACKAGING
M-SC1100F-SMKT-01	Novocoat SC1100 Primer/Sealer FC	0.9 gal (3.4 L) Kit
	- Part A Resin	5.7 lbs (2.6 kg) Pail
	- Part B Hardener	2.5 lbs (1.1 kg) Jerrican
M-SC1100F-LGKT-01	Novocoat SC1100 Primer/Sealer FC	4.2 gal (16.3 L) Kit
	- Part A Resin	27 lbs (12 kg) Pail
	- Part B Hardener	12 lbs (5.4 kg) Pail
M-SC1100A-DRUM-01	Novocoat SC1100 Primer/Sealer	
	- Part A Resin	50 gal (189 L) Drum
M-SC1101B-DRUM-01	Novocoat SC1100 Primer/Sealer FC	
	- 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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