

BCI NOVOLINE 321

Description:

A high quality self-priming two-component, solvent free, high build dense cross-linking epoxy novalac based lining coat, especially designed for aggressive chemical conditions.

Recommended Use:

Protective lining on concrete and steel tanks. Suitable in high chemical exposure fields such as power plants, oil and gas, chemicals manufacturing, water and waste water treatment plants and paper mills.

Characteristics:

- Solvent free and zero VOC
- Excellent resistance to abrasion.
- Excellent resistance to chemicals.
- Self-priming.
- Highly durable.
- Maximum service temperature 140°C.
- Excellent adhesion.

Test:

Hardness	90Shore D
Bond to Concrete	>3Mpa,more than concrete cohesion
Bond to Steel	5.5Mpa N
Max. Paint Temp.	45°C
Max. Service Temp.	140°C al
Abrasion Resistance	H-18/250gm/500cycle20 mg weight
Impact Resistance	loss greater than concrete

Chemical Resistance:

- Sulphuric acid (98%)
- Sulphuric acid (50%)
- Lactic acid (10%)
- Nitric acid (10%)
- Sodium hydroxide (50%)
- Potassium hydroxide (10%)
- Diesel
- Hydrochloric acid (10%)
- Sodium hydroxide (10%)
- Kerosene
- Boric acid (10%)
- Battery water
- Vegetable oil
- Sea water
- Gasoline

Building Chemistry Industry

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Pre-Cleaning:

Remove all visible surface deposits such as grease, oils and soils with suitable detergent. Remove salt and other contaminants by washing using high pressure fresh water. Where necessary, work to remedy or alleviate design or fabrication defects such as weld spatter, and where required smooth weld seams and sharp edges before abrasive blasting.

New Steel:

Refer to pre-cleaning, the surface must be prepared according to Sa 2½ (NACE No.2/SSPC-SP 10) or Sa 2 (NACE No. 3/SSPC-SP 6) when used as a primer.

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Maintenance:

Refer to pre-cleaning, remove damaged areas using power tool cleaning to St 2 SSPC-SP3) or by abrasive blasting to Sa2 NACENo.3/SSPC-SP6), but Sa2½ NACENo.2/SSPC-SP10) is preferable. As an alternative; use water jetting to WJ-2(NACENo.5/SSPC-SP12).



Application Methods and Thinning:

Application Method	Airless Spray	Air Spray	Brush/Roller
Thinning (by volume)	0%	N/A	0%
Nozzle Orifice	21to23thou	N/A	N/A
Nozzle Pressure	4700psi	N/A	N/A
Spray Angle	40-600	N/A	N/A

Film Thickness and Spreading Rate:

	Minimum		Maximum		Recommended	
	(µm)	mil	(µm)	mil	(µm)	mil
• Dry Film Thickness (DFT)	300	11.8	600	23.6	400	15.7
• Wet Film Thickness (WFT)	300	11.8	600	23.6	400	15.7
	m ² /L	ft ² /US gal	m ² /L	ft ² /US gal	m ² /L	ft ² /US gal
• Theoretical Spreading Rate	3.3	133	1.67	67	2.5	100.25

Drying Times and Recoating:

Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly.

- Temperature 25°C/77°F
- Relative Humidity 50%
- Surface Dry 6hour
- Hard Dry 14hours
- Dry to recoat, minimum 14hours
- Dry to recoat, maximum* 36hours
- Dry to fill the tank 7days

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Note:

All records given in the table are typical at: recommended film thickness, good ventilation and one coat system. *The surface should be dry and clean prior to application. The best time to recoat is before previous coat is cured. If this time is exceeded, the surface may need to be roughened slightly.

Packing:

Packing: Base 10 Ltr
Hardener 5 Ltr

Shelf Life & Storage:

Shelf life: 12 months @ 25°C.

Storage: The container should be kept in sealed, dry, cool, well ventilated place and stored in accordance with national regulations

Handling and Safety:

- Cleanup: Use BCI Thinner 843 for tools cleaning and in case of spillage, absorb and dispose.
- Handling: Handle with care. Stir very well before use.
- Health and Safety: Please read and follow the precautionary notices displayed on the container, and all caution statements on the MSDS of this product. During application of paint, contact of liquid paint with eyes, skin, inhalation of paint mist and paint vapor should be strongly avoided. For spray application systems; applicator should wear protective clothing, gloves, also eye, skin and respiratory protection are always recommended. Keep away from reach of children.
- Ventilation: When used in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. In addition, respirators must be used by all applicator.
- Caution: This product contains flammable solvents, keep away from sparks and open flame. For information on LEL and TLV, please read the MSDS.
- Environmental safety: Please donate the left over paint and packaging to your local authorized institution for usage or recycling purpose.
- Notes: Wastes and empty containers should be disposed of in accordance with local regulations made under the Control of Pollution Act and the Environmental Protection Act.

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