

TECHNICAL INFORMATION



EPOBECC EPOXY PHENOLIC NOVAPLUS

521-86181-000

COMPONENT

Component A	521-86181-000
Component B	521-86181-999

DESCRIPTION

EPOBECC EPOXY PHENOLIC NOVAPLUS is an two pack epoxy-phenolic for industrial use. It provides excellent resistance to chemical aggressive environments, especially in the presence of acids, alkaline substances, Hydrocarbons and large amounts of solvent. Hi volume solids, excellent curing at low temperatures. Cures by chemical reaction.

USE

EPOBECC EPOXY PHENOLIC NOVAPLUS is specially designed to protect metallic or concrete structures exposed to highly aggressive environments, mainly in the presence of a wide range of acids, alkaline substances and hydrocarbons, such as internal walls of storage tanks.

Structure Buried Structures, Interior Pipe Walls, Oil tanks, Structural elements (column, trusses, etc.), Wastewater tanks

Exterior/Interior Indoor

Surface Fiberglass, Steel, Unplastered Concrete

Product line Professional/industrial Line

CHARACTERISTICS

ASSESSMENT

Finish Shine

Excellent Adherence

High Chemical Resistance

High Yield

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High Gloss

Excellent performance on
Immersion

PHYSICAL PROPERTY	DATA
Volume Solids of the mix (%)	100
Pot life @ 20 °C.	20 min
Weight Solids of the mix (%)	98-100
Weight per Gallon (kg/Gl)	4.80 to 5.00
Stormer Krebs Viscosity (Ku)	96-110
Theoretical Yield (m ² /Gallon)	150 m ² @ 1 mil
Shelf Life	Component A y Component B: 24 months.
Pull Off Strength (ASTM -D-4541)	1058 PSI
ANSI N5-12 -Chemical Resistance to aliphatic solvents, aromatic hydrocarbons (gasoline, kerosene, fuel oil and ethanol)	Excellent
Maximum Service Temperature (°C)	205°C (Continuous dry) 220°C (dry Intermediate)
Salt Spray - ASTM B117	> 1000 h (No failure)
Recommended Dry Film Thickness	5 - 15 mils
VOC (grams/liter)	20
ASTM-D968-05 Sand Abrasion Resistance	44 liters / mil
Pencil Hardness (ASTM D3363)	7H
Impact resistance ASTM D-2794 (lb-inch)	D >90 lb/inch

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Adhesion ASTM D460	56.5 mg
Elongation and flexibility test (ASTM D1737)	180° - 1/4

Definition of theoretical yield: Maximum surface that can be covered with a painting under ideal conditions. The practical performance varies depending on the type of surface used tool, applicator experience and other factors. 1 mil = 0.0254 mm.

(*): Darkening and / or yellowing of the film may occur; however, this does not affect the integrity or performance of the coating.

PRESENTATION

AVAILABLE PRESENTATIONS

521-86181-000, 2.838 lt (3/4 gallon metal container in 1 gallon container for ease of catalyst).

521-86181-999, 0.946 Liters (1/4 Gallon)

AVAILABLE COLORS

White 000

Grey 720

SURFACE PREPARATION

CONDITION	INSTRUCTION
Surface Preparation	Surface should be free of rust, grease, dust or any other contaminant that can affect the coating adherence or performance.
NACE Standard	Use NACE o SSPC (Steel Structure Painting Council) standards, or our own "Manual de Patrones Gráficos BECC para la preparación de superficies de acero" (BECC Graphic patterns for Steel surface preparation).
Abrasive blast Cleaning	Clean with abrasive blast to get a SSPC (Standard Steel Structures Painting Council) SP5 o SP10 cleaning standard.
Surface Preparation	Surface should have an adequate anchor profile (20% of the total thickness of paint system)
Iron	Zinc - Tech Inorgánico Primer (521-85051-720).

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PRODUCT PREPARATION

COMPONENT	MIXING RATIO	MIXING INSTRUCTIONS
Component A: 521-86181-000 – EPOBECC EPOXY PHENOLIC NOVAPLUS	3 Parts	Stir each component until completely homogeneous, then mix both components in the indicated proportions, wait for induction time, then add diluent:
Component B: 521-86181-999 – EPOBECC EPOXY PHENOLIC NOVAPLUS COMPONENT B	1 Part	Mezcle los Componente A y B como se indica, espere el tiempo de inducción y finalmente agregue el diluyente.:
Diluent: 510-80003-900 – BECCPOXY DILUYENTE EPÓXICO	max. 5%	

INDUCTION TIME : Does not require

PRODUCT APPLICATION

IT CAN BE APPLIED WITH



Airless spray



Brush



Spray gun (gravity or suction feed)

Tools

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Because of the short pot life of mixture (20 minutes), if applied with a conventional airless spray equipment, where the product must be premixed, its rapid catalyst can damage the equipment. Therefore, the following conventional airless equipment application instructions are given for the professional applicator who knows how to handle such risks.

Apply with a brush just for touch-ups.

Airless spray application

Nozzle size. 0,53 mm (0,021 pulg)- 0,64 mm (0,025 pulg)

Fan Angle 60°

Dry Coat Thickness 5 mils

Wet Film Thickness 5 mils

Pressure 130 - 150 BAR

Application conditions

Relative Humidity 10% - 85%

Room Temperature 10°C - 40°C

Surface Temperature 10°C - 40°C

Surface temperature should be at least 3°C (5°F) over dew point.

Drying times

Dry-to-Touch Time 3 h

Recoat time 5 to 10 h

Curing Time (days) 7 d

These drying times are based on normal conditions of application, temperature, film thickness and dilution.

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OBSERVATIONS

- Due to the manufacturing process of this product, it can present a slight variation of color between different batches.
- If you need more information, one of our technicians will assist you.
Call 800-SUR-2000 or email us at customerservice@gruposur.com
- Keep container tightly closed in a ventilated place, between 20 and 30 °C, out of reach of children.
- Container must be kept tightly closed to avoid loss of its properties.

HEALTH

- The user of this product may need the appropriate Personal Protection Equipment (PPE), as described in its Safety data Sheet (MSDS), available at <http://www.gruposur.com>
- If you need to dispose of empty containers of our products in Costa Rica, contact your SUR Color paint store or our industrial compound in La Uruca, San Jose.

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