TECHNICAL INFORMATION

EPOBECC BOND EPOXY SELF PRIMING

521-86072-000

DESCRIPTION

EPOBECC BOND EPOXY SELF PRIMING is two-pack, epoxy-polyamide primer and top-coating of high performance and surface preparation tolerant. Apt for wet, industrial or marine environments.
Contains micaceous iron oxide (MIO), performs as a primary or finish, mainly for protection of metal surfaces, but it can also protect other materials, including concrete and galvanized steel. In addition, its aluminum-enhanced version (Code 521-86072-G43), provides an increase in the system's waterproofing capabilities. Once fully cured, it can withstand constant immersion.

USE

EPOBECC BOND is recommended as an anticorrosive base on carbon steel surfaces on ships (both on hull and upperworks) and machinery. It can be applied direct to surfaces presenting corrosion strongly adhered to metal. As a primer, it can be coated with every finish. As a finish, when exposed to direct sunlight can have a hue change or a tendency to chalking.

Structure	Buried Pipes or Structures, Exterior pipes, exterior tank walls, fences, screens, grills and gates, Interior Pipe Walls, Low temperature surfaces, Metallic Structures, Ships, Structural elements (column, trusses, etc.), Wastewater tanks.
Exterior/Interior	Indoor, Outdoor
Surface	Concrete, Galvanized Steel, Iron
Product line	Professional/industrial Line

CHARACTERISTICS

SPECIAL PROPERTIES

Satin Finish
Excellent Adherence
High Chemical Resistance
Primer or Finish
Anticorrosive
High Yield
Excellent performance on C5-I and C5-M Zone, per ISO Standard 12944

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PHYSICAL PROPERTY	DATA
Solids by weight (%)	85 – 86
Gloss @ 60° (ASTM D 523)	30-35 GU
Chemical Resistance (MPI 108, paragraph 7.2)	> 6 H
Weight per gallon (kg/gal)	5.7 – 6.5
Adhesion (ASTM D 4541)	1200 psi (max.)
Resistance to removal (MPI 108, paragraph 7.5)	20 mils
Theoretical yield (m^2/gallon)	118m^2 @ 1 mil
Tape adhesion (ASTM D 3359)	4A – 5B
Salt Spray – ASTM B 117	3000 h
Pot life of the mixture	4 hours
Solids by volume (ASTM D 2697) (%)	78 – 82
Max. performance temperature (°C)	120
Shelf life	Component A: 24 month Component B: 24 months
Brookfield Viscosity (cPs)	6000 – 15000
Impact resistance (ASTM D 2794)	100 cm/kg (max.)
Grinding fineness (ASTM D 1210)	5 Hegman Min)
Recommended dry thickness	4 – 20 mil
Standard SSPC-22	Meets
VOC (volatile organic compounds) (g/l)	155
Solid vehicle in dry film (% by weight).	46 – 48
Abrasión Taber Test (ASTM D 4060-95) 1 Kg, (1000 cycles CS-10)	67 – 77 mg

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.

Note: Values Measured for white color

CONTAINERS and COLORS

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AVAILABLE CONTAINERS

Component A: 521-86072-000, 1 gallon can (3.785 Lt.)
Component B: 521-86072-999, ¼ gallon can (0.946 Lt.)

Component A: 521-86072-000, 4 gallon (15,14 Lt.)
In 5-gallon bucket for an easier catalyzing.
Component B: 521-86072-999, 1 gallon can (3.785 Lt.)

AVAILABLE COLORS

White 000
Oxide Red 307
Light Gray 751
Aluminum Enhanced G43
Special colors (Ask our Technical service)

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).
Metal Cleaning	New steel or iron surfaces should be cleaned with our Degreaser Desengrasante SUR 330-900.
Mechanical cleaning	Use hand or power tools to clean surface up to a SSPC (Standard Steel Structures Painting Council) SP2 or SP3 Cleaning Standard.
Recommended Cleaning	Clean with abrasive blast to get a SSPC SP5 o SP10 cleaning standard.

PRODUCT PREPARATION

COMPONENT	MIXING RATIO	MIXING INSTRUCTIONS
Component A: 521-86072-000 EPOBECC BOND EPOXY SELF PRIMING	**4 Parts**	Mix Parts A and B as stated. Wait for the induction time and, finally, add diluent.
Component B: 521-86072-999 EPOBECC BOND EPOXY SELF PRIMING COMPONENT B	**1 Part**	

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Component B: 521-86074-999 EPOBECC **1 Part** BOND COMPONENT B SPECIAL	Use it as a substitute for Standard B Component only when relative humidity is over 85%, or when there is surface condensation.
Diluent: 510-80003-900 BECCPOXY **max. 25 %** DILUYENTE EPÓXICO	

INDUCTION TIME: 20 min. Add diluent after induction Time

PRODUCT APPLICATION

IT CAN BE APPLIED WITH

Airless spray	Brush	Roller	Spray gun (gravity or suction feed)

Airless spray application	
Nozzle size.	0.43 mm (0.017 in) - 0,48 mm (0.019")
Fan Angle	60°
Dry Coat Thickness	10 mils
Wet Film Thickness	14 mil
Line Pressure	130-150 BAR

These are reference values. Professional users can slightly adjust some value as indicated by field conditions.

Application conditions	
Surface Temperature	5°C - 40°C
Room Temperature	10°C - 40°C
Relative Humidity	10% - 85%
Drying times	
Dry-to-Touch Time	3 - 4 h
Time to recoat	6 hours - Unlimited

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Curing Time (days)	7 days
Drying times listed are under ideal conditions (Between 22-28°C temperature and 50 - 85% relative humidity). These times are dependent on temperature, moisture, film thickness and dilution.	When Special B Component [521-86074-999] is used, dry to touch times will be longer.

OBSERVATIONS

- ✓ If you need more information, one of our technicians will assist you. Call 800-SUR-2000 or email us at customerservice@gruposur.com
  If this product is exposed to high humidity or condensation shortly after being applied, this could cause a matte finish or changes in its original coloration.
- ✓ 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

- ✓ 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.
- ✓ 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