



TECHNICAL DATA SHEET

FOOD-GRADE EPOXY POLYAMIDE ENAMEL

Name: EPICOL FREE SOLVENT COAT
Code: 400.00000
Color: WHITE
Appearance: OPAQUE
Packaging: 6 KG TIN
Availability: IN STOCK

Catalyst: EPOXY
Name: EPICOL FREE-SOLVENT CATALYST
Code: 490.00000
Packaging: 1,7 L. TIN

Specific thinner: ETHYL ALCOHOL FOR FOOD USE

WHERE TO USE

Enamel suitable for the internal coating of tanks and cement-based products that are intact and compact, free from cracks and crazing, which usually must come into contact with food substances such as beer, syrups, meat, milk, wine, water with pH ≥ 5 and with certification n. 114229 of 04/30/1999, issued by the Commodity Chemical Laboratory of the Chamber of Commerce of Rome, according to DM of 03/21/1973, modified by the decree of the Ministry of Health n. 388 of 22/07/1998. Epicol Free Solvent Coat it can also be used for the protective coating of tanks of purification plants, evaporative towers and concrete ducts, also intended for contact with weakly aggressive chemical agents. The recommended minimum final thickness is not less than 400 μ m in dry film.

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CHEMICAL AND PHYSICAL CHARACTERISTICS

Referred to the undiluted catalyzed product

The physical constants are indicative and subject to normal production tolerances in accordance with ISO 3534-1.

Calculated specific weight	Kg/L 1.640 \pm 0.020
Calculated dry residue	Weight 99% \pm 0.50% Volume 99% \pm 0.50%
Binder	EPOXY + ACTIVATED AMIDE ADDUCT
Calculated theoretical yield* dry film 450 μ m	1.4 mq/Kg



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* The yield must be evaluated from time to time, as it is conditioned by multiple external and environmental factors that are variable during the application phase. In estimating the quantities necessary for the execution of the work, it is also necessary to consider the possible losses of material during mixing and application.

Drying	Air T° 25°C Relative humidity 50%
Dry to the touch	4 - 6 hours
Dry in depth	7 days
Dry for food contact	at least 10 days and subsequent washing with hot drinking water before food contact
Overpainting	after 6 hours and within 24 hours
Note: Protect from driving rain for at least 24 hours	

APPLICATION INSTRUCTIONS

Optimal conditions for the application

Temperature not lower than 5°C, and anyway when the T° of the surface is at least above dew point.

Relative humidity not exceeding 80%.

Note: Excessive moisture or condensation during polymerization can negatively interfere with the polymerization itself and / or cause discoloration. Above or below normal conditions it may be necessary to use special application techniques and particular dilution ratios.

How to treat the surface

The surface must be clean, solid and dry. It is necessary to remove from the support, by sandblasting, the friable parts, dust, traces of release oil, paints previously.

If the substrate is moist, it is necessary to use as a first coat a tricomponent epoxy polyamide primer and then the food-grade epoxy polyamide enamel EPICOL FREE SOLVENT COAT.





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Concrete

Perform cleaning with removal, by staking out or sandblasting, of friable or inconsistent layers. Next, proceed with the restoration of the damaged parts and their dusting.

IMPORTANT: It is absolutely necessary to verify before the treatment that there are no traces of humidity, or possible formation of rising humidity even after the application of the paint layer, to avoid the detachment of the film. Therefore it is advisable to contact the COLGOM assistance service by calling 3358384781.

On the concrete where humidity is absent, we recommend applying one / two coats of based solvent epoxy-polyamide Impregnant, before painting with food-grade epoxy polyamide enamel EPICOL FREE SOLVENT.

Carbon Steel

EPICOL FREE SOLVENT epoxy polyamide enamel can also be used on carbon steel substrates. In this case, the support must be cleaned by sandblasting up to the minimum grade Sa 2 (ISO 8501-1). Within six hours of cleaning, an epoxy polyamide primer must be applied. The recommended thickness is not less than 70 µm with a dry film. Then apply the finish according to the intended methods.

Recommended primer for concrete	EPOXY-POLYAMIDE IMPREGNATING PRIMER
Name	EPICOL TRANSPARENT
Code	999.00456
Recommended primer for carbon steel	EPOXY-POLYAMIDE ANTIRUST
Name	EPICOL PRIMER
Code	401.00000

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Mode

By spray	SUITABLE
By roller	SUITABLE
By brush	SUITABLE
Note: Taking care to reach the required thickness	



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MIXTURE AND DILUTION

Both depend on the application method.

The use of a diluent other than the specific one indicated may have a negative effect on the behavior of the coating applied, with the cancellation of guarantees also explicitly expressed and / or agreed upon.

Note: Carefully mix food-grade epoxy polyamide enamel (component A) before catalysis. Add the catalyst (component B). Carefully mix the catalyzed product. Adding the thinner and mix again.

IMPORTANT: During hot periods, before mixing the two components, avoid exposing them directly to the sun. It is also advisable to store them for at least 24 hours at a temperature of + 10 ° C.

Spray application

With AIRLESS and AIRMIX systems, dilute up to the viscosity of 40" Ford Cup No. 4 at 20°C.

Roller application

Maximum dilution 5%, taking care to reach the required thickness.

Brush application

Maximum dilution 5%, taking care to reach the required thickness.

Catalysis	
EPOXY-POLYAMIDE ENAMEL	100 PARTS BY WEIGHT
EPOXY CATALYST	28 PARTS BY WEIGHT
INDUCTION TIME	5 MINUTES
POT-LIFE*	30' – 40' at 25°C and lower at higher temperatures.
*The duration of the mixture ends when the product becomes too viscous for use.	
NOTE: Avoid partial mixing to avoid dosage mistake that would lead to failure or incomplete hardening of the product.	



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INSTRUCTIONS FOR STORAGE

The product must be stored in accordance with national regulations. After the indicated period of time, check before use to verify the integrity of the product. Storage at high temperatures significantly reduces the period of use of the product.

Enamel

24 months from the date of production in sealed can, as long as the material is placed indoor, away from heat sources, protected from frost and anyway within the limits of 4 - 30°C and humidity 0 - 80°C.

Catalyst

24 months from the date of production in sealed can, as long as the material is placed indoors, away from heat sources, protected from frost and anyway within the limits of 4 - 30°C and humidity 0 - 80°C.

HEALTH AND SAFETY

To be used exclusively for the uses and conditions shown on this data sheet.

In applications it is always necessary to provide adequate room ventilation.

Do not inhale the nebulised paint. Do not eat, drink or smoke during use. Do not disperse into environment. Collect spillages.

Dispose of the product / container in accordance with national regulations.

The product causes serious eye irritation. Wearing protective gloves / clothing. Protecting eyes / face. In case of contact with the skin, removing the paint with a suitable detergent, soap and water. Keep out of reach of children.

In case of need, consulting Niguarda Hospital's venoms Center at the number 02/66101029

For detailed information on health and safety hazards and precautions for the use of this product, always consult the Safety Data Sheet.

Please Note:

Since the conditions of use of our materials are not under our direct control, we decline any responsibility for the improper use that is made of them, for the direct or indirect damages that can derive from their use towards anyone and for the duration in time of the product after its application.

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This data sheet replaces all the previous ones.