



## TECHNICAL DATA SHEET

# TWO-COMPONENT EPOXY-HYDROCARBON ENAMEL

Name: EPOX HYDROCARBONIC COAT  
Code: 401.00000  
Color: BLACK  
Appearance: GLOSSY  
Packaging: 25 KG TIN  
Availability: ON REQUEST

Catalyst: EPOXY  
Name: EPICOL CATALYST  
Code: 490.06304  
Packaging: 3 L. TIN

Specific thinner: [EPOXY](#)  
Name: EPICOL DILUENT  
Code: 940.02076

## WHERE TO USE

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Two-component epoxy-hydrocarbon enamel, non-toxic, suitable for protecting concrete substrates destined to be buried or immersed in fresh or salt water, such as duct and piling. The product does not contain coal tar. Suitable for Im1, Im2 and Im3 environments, ISO 12944-2 standard. The product is also suitable for iron substrates.

The recommended minimum final thickness is not less than 300µm in dry film.

## 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. The data shown are relative to the Black Color. For different colors the physical constants can take different values.

Calculated specific weight	Kg/L $1.200 \pm 0.020$ L/Kg $0.820 \pm 0.020$
Fineness of grinding	>6 Hegman scale (NS)
Calculated dry residue	Weight $66\% \pm 2\%$ Volume $51\% \pm 2\%$



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Binder	EPOXY + SPECIAL BITUMENS + ACTIVED POLYAMIDE ADDUCT
C.O.V.	< 500 g/L
Calculated theoretical yield* dry film 60µm	5.2 mq/Kg 5.8 mq/L
* 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 70%
Dust out	15' – 20'
Dry to the touch	3 - 4 hours
Dry in depth	7 days
Overpainting	after 1 hour and within 72 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.



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### How to treat the surface

The surface must be clean and dry. A suitable method must be used to remove dirt, dust, oils and other contaminants that could interfere with the adhesion of the product.

#### Less complex procedure:

Perform accurate mechanical brushing and subsequent careful blowing with dehumidified compressed air (ISO 8573). At the end it is possible to applying the epoxy hydrocarbon enamel EPOX HYDROCARBONIC COAT directly on the support.

#### More complex procedure:

Carry out a sandblasting to eliminate the traces of old paint and subsequent careful blowing by dehumidified compressed air (ISO 8573). Proceed with the application of a suitable anchoring primer within 6 hours. After at least 4 hours and no more than 48 hours after applying the primer, paint with EPOX HYDROCARBONIC COAT.

Recommended primer for concrete substrates	<a href="#">Epoxy-Polyamide impregnating primer</a>	Recommended primer for iron substrates	<a href="#">Epoxy-Polyamide antirust</a>
Name	EPICOL TRANSPARENT	Name	EPICOL PRIMER
Code	999.00456	Code	401.00000

### Mode

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

## 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 epoxy-hydrocarbon enamel (component A) before catalysis. Add the catalyst (component B). Carefully mix the catalyzed product. Adding the thinner and mix again.



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### Spray application

Suitable using with AIRLESS and AIRMIX systems. We recommend reaching the required thickness.

### 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-HYDROCARBON ENAMEL	100 PARTS BY WEIGHT
EPOXY CATALYST	25 PARTS BY WEIGHT
EPOXY-HYDROCARBON ENAMEL	100 PARTS IN VOLUME
EPOXY CATALYST	35 PARTS IN VOLUME
INDUCTION TIME	15 MINUTES
POT-LIFE*	8 hours at 25°C and lower at higher temperatures.
*The duration of the mixture ends when the product becomes too viscous for use.	

## 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

12 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

12 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.



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### 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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#### Revision N.01/2019

This data sheet replaces all the previous ones.

