



# ANTICORROSIVE EPOXY PRIMER WITH GRAPHENE OXIDE



# DATA SHEET

## ANTICORROSIVE EPOXY PRIMER WITH GRAPHENE OXIDE

### Description

Coating based on anticorrosive epoxy resin and solvent-based polyamide catalyst, it is a two-component product, easy to prepare and apply, with a semi-matte film. It has good adherence and magnificent covering power. Due to its great durability and performance, it is Ideal for general coating work on metal, wood, and concrete surfaces. For better results, it recommended to apply an aromatic or aliphatic polyurethane coatings as a finish coat. Its use extends to interiors and exteriors.

### Features



High anticorrosive protection (Resistance to 1,500 hrs of exposure to salt spray)



Greater adherence to surfaces



Good chemical resistance, as well as some solvents



High resistance to abrasion



Excellent resistance to weathering

### Use

The epoxy primer is used to improve the performance of the finish coating on the surface to be painted, improving the anchorage to the substrate. It is excellent for anchoring and obtaining a better finish of the subsequent topcoats on the surfaces (aromatic and aliphatic polyurethane topcoats). It also provides additional corrosion protection when applied to ferrous substrates. On concrete and masonry surfaces it provides better adhesion of polyurethane topcoats.

### Yield

Yield of 6-7 m<sup>2</sup> /L (240-280 square feet/gallon) depending on the porosity and texture of the surface.

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### Physical properties

EPOXY PRIMER

Resin Type	Epoxy
Physical State	Liquid
% Solids	64.0 - 66.0
Density (Kg / L)	1.300 - 1.400
Brookfield Viscosity (cps)	600 - 1200

EPOXY CATALYST

Resin Type	Polyamide
Colour	Amber
Physical State	Liquid
% Solids	49.0 - 52.0
Density (Kg / L)	0.900 - 0.950mida
Brookfield Viscosity (cps)	>100

**\*Recommended film or coating thickness:**

Thickness	Minimum	Maximum
Wet, mils (microns)	7.0 (175)	10.0 (250)
Dry, mils (microns)	5.0 (125)	7.0 (175)

### Colors

Gray, white or black

### Drying time

At ambient conditions of 25°C (77°F) and 50% relative humidity. Drying time is longer at lower temperatures and excess humidity.

- Touch 60 min
- To coat 3 - 4 h
- Full cure (Hard) 24 h

### Product Presentation

The product is supplied as a two-component kit, consisting of the Epoxy Primer and the Epoxy Catalyst:

- 18 liters kit: includes 1 bucket with 3.17 gallons (12 liters) of Epoxy Primer and 1 can that contains 1.58 gallons (6 liters) of Epoxy Catalyst.



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- 4 liters kit: includes 1 bucket with 0.705 gallons (2.67 liters) of Epoxy Primer and 1 liter and 0.5 liter cans with 0.264 gallons (1 liter) and 0.087 gallons (0.33 liters) liters of Epoxy Catalyst.

The use ratio of the product is 2 to 1 in volume, 2 volumes of Epoxy Primer, for 1 volume of Epoxy Catalyst.



### Material handling

#### Surface Preparation

Before applying, the surface must be clean and dry, free of dust, grease, oil, rust, as well as any other contaminant.

Old or poor paint should be completely removed if possible, or else sanded down.

#### Product preparation

Pour the contents of the epoxy catalyst can into the container containing the epoxy primer and mix thoroughly. Subsequently, the product is ready to be applied by brush, roller, spray systems, either airless or compressor. The product does not require dilution. In case the user considers diluting the product, use acrylic thinner. The maximum dilution with acrylic thinner should not exceed 15% for spray application and 10% for brush or roller application.

Once the product mixture is prepared, it has a shelf life of at least 6 hours for application in ambient conditions of 24° C (75°F) and 50% relative humidity.

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### Product Application

Apply the product on the surface, first apply in one direction until perfectly covered, and then apply perpendicularly to the first, forming a cross. Allow the material to dry on the surface, approximately 2 hours, it is suggested to apply after 3 hours the surface topcoat (finish coat of aromatic and aliphatic polyurethane).

### Recommendations

- The paint can be applied directly or with a maximum dilution of 15%. In case of dilution, use only acrylic thinner.
- Mix the contents of the containers well, after mixing and also after dilution.
- Do not leave the container open during its application.
- Store in a covered, cool, and dry place, avoid extreme temperatures.
- Apply in spaces with adequate ventilation.

### Warnings

- In case of ingestion, do not induce vomiting; rinse nose, mouth and throat and get medical attention.
- Keep out of reach of children.
- Do not smoke or eat during application.
- Avoid direct contact.
- Close the container well after each use.
- Flammable liquid, keep away from fire or sources.



ATTENTION, HARMFUL  
IF SWALLOWED



FLAMMABLE LIQUID

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### Safety precautions

- Contains flammable substances, sufficient ventilation its required. Keep away from any source of fire.
- The rules and regulations in force at the place of application regarding Hygiene, Safety and Environment must be complied.
- In case of doubt about the application of this product, consult Energeia Fusion S.A de C.V. Technical Service
- Use personal protective equipment, glasses, gloves, face mask and protective suit.



WEAR  
PROTECTIVE SUIT



USE GLOVES



WEAR GLASSES



WEAR FACE MASK

### Storage

Store in a cool, dry place, avoid freezing conditions and extreme heat. This product contains flammable solvents, keep away from sources of ignition or flame, do not store outdoors.

### Waste management and environmental impact

Waste such as brushes, cheesecloth and other materials used to apply the product must be disposed together with the waste contaminated with chemical products generated during the product application.

### Expiration

The product can be stored for up to 12 months in its original container, hermetically sealed, under cover, in a cool and dry place, protected from sunlight.

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### Legal Note

The information contained in this data sheet is provided in good faith and is valid only for the product to which reference is made.

The information is not intended to be exhaustive, and it is based on Energeia Fusion, S.A. de C.V., current knowledge, and experience, if the product is properly stored, handled, and applied under normal conditions and in accordance with the recommendations expressed here.

It is advisable to carry out the pertinent tests with the product to determine its suitability before its final application. In case of changes in parameters of application or if it is planned to use for a different application, consult Energeia Fusion Technical Service.

Energeia Fusion, S.A de C.V. is not responsible for any damage that may be caused by misuse of the product.

For more information contact [contact@graphenemex.com](mailto:contact@graphenemex.com)

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