

DATA SHEET



ANTICORROSIVE EPOXY PRIMER

NANOTECHNOLOGICAL COATING
WITH GRAPHENE OXIDE



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EVERGEIA®

Description

It is a 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.

Advantages

- Excellent resistance to weathering.
- Good chemical corrosion resistance.
- High abrasion resistance.

Application

The epoxy primer is used to improve anchorage to the substrate, it is excellent for anchoring and obtaining a better finish for the upper layers or the final finish of aromatic or aliphatic polyurethane. Additionally, it provides additional corrosion protection when applied to ferrous substrates. On cement and masonry surfaces provides better adhesion of polyurethane topcoats.

Colors

Available in Gray

Drying time

- | | |
|--------------------|---------------|
| • Touch | 30-60 minutes |
| • To cover | 2-3 hours |
| • Full cure (Hard) | 24 hours |

Physical Properties

Epoxy Primer

RESIN TYPE	EPOXY
PHYSICAL STATUS	LIQUID
% SOLIDS	64.0 - 66.0
DENSITY (kg/l)	1.300 - 1.400
BROOKFIELD VISCOSITY (cps)	600 - 1200

Catalyst

RESIN TYPE	POLYAMIDE
COLOUR	AMBER
PHYSICAL STATUS	LIQUID
% SOLIDS	49.0 - 52.0
DENSITY (kg/l)	0.900 - 0.950
BROOKFIELD VISCOSITY (cps)	< 100

Container size

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

- Kit of 18 liters, includes 1 bucket with 14.4 liters of Epoxy Primer and 1 can that contains 3.6 liters of Epoxy Catalyst, for a total of 18 liters of product.

The use ratio of the product is 4 to 1 in volume, 4 volumes of Epoxy Primer, for 1 volume of Epoxy Catalyst.

Surface Preparation

Before applying, the surface must be clean and dry, free of dust, grease, oil, rust, as well as any other contaminant. Previous coating in bad condition should be completely removed if possible, or else sanded down.

Product Preparation

Pour the contents of the epoxy catalyst canister into the container containing the epoxy primer and mix thoroughly. Afterwards, the product is ready to be applied by brush, roller, spray systems, either airless or compressor. The product does not need to be diluted, otherwise use acrylic thinner, with a dilution according to what is indicated in the instructions for use section. Once the product mixture is prepared, it has a life time of at least 4 hours for its application in environmental conditions of 24 °C and 50% relative humidity.

Dilution

For most applications, the epoxy primer does not need to be diluted, otherwise use acrylic thinner, with a dilution according to what is indicated in the instructions for use section.

Product Application

First apply the product in one direction until perfectly covered and then apply perpendicularly to the surface forming a cross. Allow the material to cure for approximately 2 hours, it is suggested to apply the final aromatic or aliphatic polyurethane finishing coats after 3 hours. The product coverage is 6 to 7 square meters per liter, it can vary depending on the porosity of the surface.

Use Instructions

- It can be applied with brush (nylon/polyester or natural bristles), or spray systems (airless).
- The maximum dilution with acrylic thinner should not be greater than 15% for spray application and 10% for brush or roller application.
- Thoroughly mix contents of containers after mixing and also after dilution.
- Before the second application, allow the surface to dry for 2 hours.
- After application, wash the equipment used with standard thinner.

Recommendations

- The coating can be applied directly or with a maximum dilution of 15%.
- In case of dilution, use only acrylic thinner.
- 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

- If swallowed, do not induce vomiting, seek immediate medical attention.
- Keep out of reach of minors.
- Do not smoke or eat food during your application.
- Avoid direct contact.
- Apply in spaces with adequate ventilation.
- Close the container well after each use.

Safety precautions

- When applying use safety glasses, gloves and apron.
- The standards and regulations in force in the place of application on Hygiene, Safety and Environment must be complied with.
- In case of doubt about the application of this product, consult the Technical Service of Energeia Fusion, S.A de C.V.

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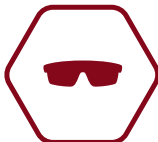
**ATTENTION HARMFUL IN
CASE OF INGESTION**



WEAR
PROTECTIVE SUIT



USE
GLOVES



WEAR
GLASSES



WEAR
FACE MASK

Storage

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

Waste management and environmental impact

Waste such as tow and other materials used to apply the product by spraying (disposable) must be disposed of together with the waste contaminated with chemical products generated by the product.

Legal Note

All the information contained in this technical sheet is not intended to be exhaustive, it was based on the current knowledge and experience of Energeia Fusion, S.A de C.V. as long as the product has been correctly stored, handled and applied in normal situations and according to the recommendations. In case of changes in the application parameters, consult Energeia Fusion Technical Service.

The information contained herein does not exonerate the user from testing the products for the desired application and purpose.

For more information contact contact@graphenemex.com

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