



ANTICORROSIVE AROMATIC POLYURETHANE WITH GRAPHENE OXIDE



DATA SHEET

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Description

It is an aromatic polyurethane coating with graphene oxide, for the protection of metal surfaces exposed to chemical and environmental corrosive agents, as well as for signaling and delimitation in areas exposed to intense traffic.

Features



Extraordinary corrosion protection (Resistance to 2,500 hrs of exposure to salt spray and 1,600 hrs of accelerated weathering)



Greater adherence to surfaces



Great durability



Inhibits the growth of bacteria and fungi



Excellent chemical and mechanical resistance (abrasion and impact)

Use

To paint and protect surfaces exposed to chemical and environmental corrosive agents (saline, diluted acids, alkalis, and various solvents).

For signaling and delimitation of areas on concrete floors and walls, exposed to intense traffic (pedestrian, vehicular and industrial machinery).

For signaling and delimitation of areas on concrete, cement, wood or MDF floors and walls. As a coating for pipes or ferrous, galvanized and PVC metal surfaces.

Yield

Yield of 8-10 m² /L (325 - 400 square feet/gallon) depending on the porosity and texture of the surface, and the color to be applied.

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Physical properties

Resin type	Aromatic Polyurethane
Physical State	Liquid
% Solids	55.0 - 65.0
Density (Kg / L)	1.150 – 1.200
Viscosity (KU)	95-112

*Recommended film or coating thickness:

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

Colors

Traffic yellow/ Red / Green / Black / Blue / White / Yellow / Gray

Drying time

At ambient conditions of 25°C (77°F) and 50% relative humidity. Drying time is longer at lower temperatures. This coating cures on a moisture basis, so excess moisture may result in decreased drying time, but may also affect the viscosity of the product in high humidity conditions.

- **Touch** 15 min
- **To coat** 2 h
- **Full cure (Hard)** 24 h

Presentation



Containers: 18 and 4 liters
Gloss finish

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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.

On new metallic surfaces, if the surface is shiny or smooth, you should sand until the shine is dulled or porosity is caused. For best results use Graphenergy epoxy primer.

Product preparation

Mix the content perfectly until there is no settled component in the container.

The product does not require dilution. In case the user considers diluting the product, use only polyurethane reducer (PU reducer). The maximum dilution with PU reducer should not exceed 15% for spray application and 10% for brush or roller application.

Mix the contents of the containers well, after mixing and after dilution.

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

Product Application

-It can be applied by brush, roller, or airless spray systems. With airless equipment follow the equipment manufacturer's instructions to use the proper nozzle.

-Apply the product on the surface, first apply in one direction until perfectly covered, then apply perpendicularly to the first, forming a cross.

-Allow to dry for 30 minutes between applications. Material cures completely in 24 hours.

-Once the application is finished, wash the equipment used with solvent or standard thinner.

Recommendations

- The paint can be applied directly or with a maximum dilution of 15%. In case of dilution, use only polyurethane reducer.
- Do not leave the container open during its application.
- Store in a covered, cool, and dry place, avoid extreme temperatures.



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- Apply in spaces with adequate ventilation.
- Do not apply on wet surfaces or when there is a risk of rain.

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 heat sources.



ATTENTION, HARMFUL
IF SWALLOWED



FLAMMABLE LIQUID

Safety precautions

- Contains flammable substances, so sufficient ventilation is required and 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

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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 6 months in its original container, hermetically sealed, under cover, in a cool and dry place, protected from sunlight.

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

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