

DATA SHEET



SOLVENT BASED ANTICORROSIVE ALIPHATIC POLYURETHANE

**GRAPHENIC ANTICORROSIVE
COATING FOR INDUSTRIAL
AND INFRASTRUCTURE
USES ON METALLIC SURFACES**



Description

It is a coating based on aliphatic polyurethane resin and solvent catalyst. It is a two-component anticorrosive product, easy to prepare and apply, with a glossy film. It has good adherence and magnificent covering power. Due to its great durability and performance, it is ideal for general coating on metal, wood and concrete surfaces. Its use is optimal for exteriors since, due to its chemical nature, it is not affected by the incidence of ultraviolet rays, it does not change shade and has excellent gloss retention. This product has excellent chemical resistance to bases, acids, solvents and oils.

Advantages

- Excellent anticorrosive protection
- Good chemical resistance and some solvents.
- Abrasion high resistance.

Application

Aliphatic PU is used to protect and decorate surfaces of metal, wood, and concrete that are exposed to the elements in exteriors and interiors. It provides additional corrosion protection when applied to ferrous substrates.

The prior use of Epoxy Primer increases the durability of the finish, as well as the resistance to some chemical products such as: acids, bases, solvents and oils.

Colors

A variety of colors are available, see color palette.

Drying time

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



Physical Properties

Glossy Aliphatic PU

RESIN TYPE	ALIPHATIC POLYURETHANE
PHYSICAL STATUS	LIQUID
% SOLIDS	47.0 - 49.0
DENSITY (kg/l)	0.990 – 1.000
BROOKFIELD VISCOSITY (cps)	1000 - 1600

Catalyst

COLOR	TRANSPARENT
PHYSICAL STATUS	LIQUID
% SOLIDS	49.0 - 51.0
DENSITY (kg/l)	0.990 – 1.010
BROOKFIELD VISCOSITY (cps)	DOES NOT APPLY

Container size

The product is supplied as a two-component kit, made up of the Aliphatic Polyurethane and the Aliphatic Catalyst:

- Kit of 18 liters, includes 1 bucket with 14.2 liters of Aliphatic PU and 1 can that contains 3.8 liters of Aliphatic PU Catalyst, for a total of 18 liters of product. The use ratio of the product is 4 to 1 in volume, 4 volumes of Aliphatic PU, for 1 volume of Aliphatic PU 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.

It is recommended to use Epoxy Primer on the surface to be painted and to apply the Aliphatic Polyurethane finish on it, according to the case.

Product Preparation

Pour the contents of the Aliphatic PU catalyst bottle into the container containing the Aliphatic PU 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.

Dilution

For most applications, the glossy Aliphatic PU 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 yield of the product 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 paint 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, face mask and apron.
- The standards and regulations in force in the place of application on Hygiene, Safety and Environment must be complied.
- In case of doubt about the application of this product, consult the Technical Service of Energeia Fusion, S.A de C.V.



WEAR SUIT
PROTECTIVE



USE
GLOVES



USE
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.

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