



EPOXY RESIN ONE-TO-ONE

Description

EPOXY RESIN ONE-TO-ONE: High quality epoxy system developed for hobby, craft and industrial use. Ensures excellent results for both film applications (1 mm) and casting in thickness up to 2 cm. In addition to the high self-leveling properties and perfect transparency, it guarantees a good mechanical seal for reinforcement and applications with carbon fiber. Formulated with components with high UV resistance, it allows long-lasting creations (low yellowing). The product is characterized by a low viscosity that reduces the presence of air bubbles after hardening in artistic creations, thick fills and facilitates the impregnation of carbon fiber. The high-performance resistance to moisture ensures a perfectly shiny and transparent surface.

The one-to-one epoxy resin RESINPRO is ideal for the following applications:

- Artistic creations
- Modelling
- Artistic floorings
- Repairs in fiberglass
- Protective coatings for outdoor use
- Nautical
- Impregnation of technical fabrics (fiberglass, carbon fiber, Kevlar).

Application Areas

- **Artistic:** Usable as epoxy resin for casting and embedding
- **Handicraft:** Creation of tables and support surfaces (high mechanical resistance and high temperatures)
- **Industrial:** Can be used as transparent self-leveling resin for flooring.

- **Decorative:** perfectly compatible with chlorine paste and metallic powders allows extreme chromatic versatility.

Main features

- Artistic creations
- Woodworking and related industries
- Modelling
- Artistic floorings
- Repairs in fiberglass
- Protective coatings for outdoor use
- Nautical
- Impregnation of technical fabrics (fiberglass, carbon fiber, Kevlar).

Technical datas

Colour	Transparent
Mixing ratio (A + B)	1:1
Catalysis in film (1mm a 30 C)	8h 00'
POT LIFE 25°C	50 ± 10 minutes (150g)* * Lower at higher temperatures. The pot-life ends when the product loses body and starts to thicken.
Catalysis	48h
Complete catalysis	7 days* *Recommended before polishing
Density	1,08 ± 0,02 kg/l
Viscosity part A	450-550 mPa · s (20°C)
Viscosity part B	325-375 mPa · s (20°C)
Application for self-levelling casting	Theoretical consumption 1,600 g/smq

3251 Compression strenght	> 75 MPa
Flexural strenght	> 90 MPa
Adhesion force	> 4,0 MPa
Hardness	Shore D 80 EN ISO 868
Scratching strenght	< 100 mg
Chemical strenght	Sodium hudroxide 20% - Class I and II Sulphuric acid 20% Class I and II
Cleaning	Use a suitable diluent. In case of spillage absorb and dispose in accordance with local regulations.
Security	Read and follow all precautions given in this data sheet and in the safety data sheet of the product. Use normal working precautions. Hypersensitive people should wear protective clothing, gloves and use suitable protective creams for face, hands and all uncovered areas
Ventilation	The ventilation system allows the solvent concentration to remain below explosive limits. In addition, users should ensure adequate ventilation to ensure their own health and safety.
Precautions	All electrical installations must be grounded. In areas where there is a danger of explosion; operators must use non-ferrous tools and anti-stick shoes

NOTES

The epoxy system ONE-TO-ONE matures after about 24h and reaches a good hardness in 48h-72h (depending on the catalysis temperature). If you want to speed up the curing time, keep the casting close to any heat source (radiator or other). This will cut catalysis times in half.

During the application of RESINPRO ONE TO ONE it is necessary to consider that the change of factors such as porosity of the surface, humidity, temperature and method of application can alter the catalysis of the product.

Packaging and storage

RESINPRO ONE-TO-ONE is packaged in sealed containers; use within 12 months from the date of packaging. Protect the material from moisture, frost, and direct sunlight.

Storage temperature : between +10° and +35°C.

The Products should remain in the original containers and appropriately sealed.

SAFETY MEASURES FOR HEALTH During the preparation and application of RESINPRO ONE TO ONE, it is recommended to use protective clothing such as gloves, glasses and a mask. During application, do not eat, drink, or smoke. In case of contact with eyes or skin, wash immediately with plenty of water and where necessary, consult your doctor. Do not disperse the product into the environment. FOR FURTHER INFORMATION ON THE SAFE USE OF THE PRODUCT, PLEASE CONSULT THE LATEST VERSION OF THE SAFETY DATA SHEET.