

EPOXY RESIN



Technical Information Product for Professional Use Only

Product Components

composite A - Epoxy Resin
composite B - Hardening Agent

Product Description

A flexible construction resin with additional catalysts. In combination with glass mat, it's designed for manual repairs of serious damage. This allows you to achieve a coating with excellent surface adhesion and extremely high durability.

Physiochemical Characteristics:

Resin Colour: clear yellow
Hardener colour: clear light blue
Finish: sine

Mechanical Properties cured resin :

-tensile strength	80	MPa
-elongation at break	7	%
-tensile modulus	3400	MPa
-flexural strength	130	MPa
- tensile modulus	3400	MPa
-compression	110	MPa
- impact resistance	30÷40	kJ/m2
-thermal resistance	64	°C

Data for curing conditions: 5h / 50°C



Number of Layers

Several layers of mat may be applied. The Output of the resin/hardening agent mixture is 0,3-0,7 kg for 1m2 per layer

Application Process



Uses:

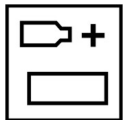
In combination with glass mat, it serves for the repair of major damages and large holes both above and below the water line. The product has excellent adhesion to a wide variety of surfaces. It may be applied to surfaces made from: various metals such as steel and aluminium, epoxy and polyester laminates, and wood.

Preparing the surface:

Clean and remove grease from the surface using Sea-Line® Cleaner. Sand the surface with paper; from P 80÷180. Clean dust and remove grease again. Salt remove with fresh water

Conditions for application :

Minimal temperature for use epoxy resin is +15°C. Best results can be achieved in 20-25 °C and humidity no higher than 70%



Proportions for mixing:

	Filler : Hardening Agent
units of weight: (g)	100 : 35
units of volume: (ml)	100 : 40

Mix contents until mixture is a solid colour. Only mix enough product for immediate use. Available time for application after mixture: 45min./23°C

The proportions of the resin in relation to fiberglass mat or fabric

To obtain a full-fledged and adequately strong laminate, use:

2 kg of resin per 1 kg of powder glassfiber mat.

1 kg of resin per 1 kg of glass fabric.

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Application:



- prepare a piece of glass mat in such a way that the mat extends approximately 2 cm. past the edge of the damaged spot.
- with a brush, apply resin mixed with hardener to a clean spot.
- apply mat, press it down firmly, and saturate with resin with the aid of a brush; several layers of mat may be applied.
- wait 24 hours, and after this time the surface can be finished mechanically or touched up with a epoxy filler.
- minimum temperature for application: +15°C

CAUTION: Do not pour resin mixed with hardener back in to the container.



Available time for application after mixture: 30min

Hardening time: 7 hours at 20°C.

4-5hours at 30°C.

Full hardening at 20°C takes one week.

Temperatures below 20°C increase setting time markedly

Surface preparation

Degrease the work surface, sand with sandpaper of P40-P280 granulation. Remove dust and degrease again. Wash off salts and any other impurities with fresh water.

Further Work

After setting, the surface should be sanded:

- general sanding: P80-P120,
- finishing work: P120-P240.

Epoxy GRP can be finished with:

- epoxy finishing filler,
- a matched painting set (primer, paint, topcoat, gelcoat)

Caution: Before applying the system polyester gelcoat/ topcoat, it is recommended to cover with a barrier coat epoxy Lightprimer Sea-Line ®.

General Cautions

- **Do not exceed the recommended amount of hardener!**
- Minimum application temperature: +10°C.
- It is necessary to use personal protective gear when using this product. Protect the respiratory system, skin, and eyes.
- Ventilate the work space.
- Clean tools immediately after application.

Caution: In the interest of safety, always act in accordance with the data in the technical data sheet SDS.

Storage

Product contents should be kept in tightly sealed containers, in a cool, dry location, away from open flames, heat, and sunlight.

Caution: After every use, containers should be closed immediately! Protect hardener from overheating!

In low temperatures it is possible to precipitate crystals of the resin. This is demonstrated by turbidity or crystallisation of the product. It is a reversible process. In this case, the resin must be heated to a temperature of 50 to 60°C. After dissolving the crystals, resin regains its full characteristics.

Expiration

Resin - 12 months from date of production.

Hardening agent - 12 months from date of production.

Quality Guarantee

Production, quality control, and the realization of deliveries fulfill the demands of ISO standards 9001 and 14001

All information is based on scrupulous laboratory studies and many years of experience. Being established in the market does not prevent us from constant quality control. However, we do not take responsibility for the results of improper use and storage, or the results of poor craftsmanship.