

POLYESTER RESIN



Technical information

Product components : Polyester Resin
Hardening agent for polyester resin.

Volume: component A + component B : 1 lkg,
Polyester repair kit: (component A+ component B+ glass fibre mat): 250 g.

Product Description :



A flexible constructional terephthalic resin with appropriate additional catalysts; thixotropic, easily deaerating, with reduced amount of styrene emission. Colour index included in the resin allows for controlling the course of hardening process.

Uses :

In combination with glass mat, it is used for repairing major holes and defects on large surfaces. The hardened resin is characterized by high rigidity and high mechanical durability. The product has excellent adhesion to a wide variety of surfaces. It may be applied onto surfaces made from: metal, also unprimed metal, steel and aluminum, epoxy and polyester laminates, and wood.

CAUTION: Do not apply the resin directly onto reactive primers or single-component acrylic and nitrocellulose products.

Physiochemical characteristics :

Colour: greenish
Finish: gloss

Theoretical Output with :

Glass fibre mat :		Glass fabric :	
150 g/m ²	±3,3 m ²	200 g/m ²	±5 m ²
300 g/m ²	±1,7 m ²	400 g/m ²	±2,5 m ²
450 g/m ²	±1,1 m ²		

Mechanical Properties of a cured resin :

tensile strength :	40	MPa
elongation at break :	2	5
tensile modulus :	3100	MPa
flexural strength :	90	MPa
tensile modulus :	3200	MPa
thermal resistance :	72	°C

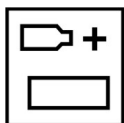
*data for curing conditions: 16h / 40°C

Preparing the surface:



Degrease the work surface, sand with a sandpaper of 80÷180 granulation. Remove dust and degrease again. Wash off salts and other contaminations with fresh water.

Component mixing proportions :



Parts by weight: (g) Polyester resin : Hardening Agent
100 : 2÷4

Mix the ingredients together until a uniform colour is obtained. Do not mix bigger amount of the product than the one that can be used within the use-by date.

CAUTION: Do not exceed the recommended amount of hardener!

Application conditions:

The minimum temperature for application of resin is +15°C. Best results can be achieved at the temperature of 20-25°C. The relative humidity should not exceed 70%.

Application time :

after mixing them together with the hardener is 10÷15 minutes at 20°C.

Application :

The proportions of using the resin in relation to fiberglass reinforcement:
○ 2 kg of resin per 1 kg of glass fibre mat.

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- 1 kg of resin per 1 kg of glass fabric.

Prepare an appropriate piece of glass mat in such a way that the mat overlaps approximately min 2 cm beyond the edge of the damaged spot. With a brush, apply the resin mixed with the hardener onto a clean spot. Apply mat, press it down firmly and saturate it with the resin with the aid of a brush; several layers of mat may be applied. Wait min. 45 min. and after this time the surface can be finished mechanically.

In order to avoid delamination, it is recommended to put subsequent layers within the time not exceeding 24 hours after forming the previous setting of layers. In the case of longer service interruption, one should polish the surface of hardened laminate

CAUTION: Do not pour the mixture remaining after lamination into a container.

Setting time :



about 45 minutes at 20°C.

Full hardening within 7 days at 20°C.

Temperature below 20°C significantly extend the setting time..

The given times must be considered as guidelines only. The actual setting time may be shorter or longer and depends on film thickness, ventilation, humidity, etc.

Further Work :

After setting, the surface should be sanded:

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

The laminate can be finished with:

Epoxy fillers, polyester fillers, polyester spray fillers, acrylic primers, epoxy primers.

General Cautions :

During the work with epoxy products, it is necessary to use a functional personal protective equipment. One should their protect eyes and respiratory tracts. Rooms should be well ventilated. Tools should be washed directly after application.

Caution: In the interest of safety, always act in accordance with the data included in the technical data sheet for a given product.

Storage :



It is recommended to keep the product in tightly sealed and original packages, in dry and airy rooms, at the constant temperature below 25°C, away from direct sun rays. Too long storage in conditions which do not fulfill the abovementioned demands, may affect the technical parameters of the resin, such as viscosity and gelation time. The resin may also delaminate. Before putting into use, one should thoroughly mix the resin in the original package.

Expiration date :



Resin - 12 months from the date of production.

Hardening agent - 12 months the from date of production.

Quality Guarantee :

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

All data in this document have been prepared for informational purposes. We can not take responsibility for the results of user actions over which we have no control. Responsibility of the user is to make the test sample and determine the suitability of the product for individual applications. Sea-Line do not take responsibility for any damages, or loss of profits associated with the improper use of the products.

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TROTON sp. z o.o. Ząbrowo.