

EPOXY BK

EPOXY RESIN

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:: CHARACTERISTICS

EPOXY BK is a solvent free epoxy resin for use as a coating or casting resin (with or without additives) and also as a laminating resin. It hardens to a tack free surface. EPOXY BK is clear and transparent.

:: AREA OF APPLICATION

As a coating resin for porous and flat surfaces. For use as a laminating resin with glass fibre reinforcement for moulds. As a coating resin for encapsulation of electronic components.

A water proof coating for gutters, pipes and tanks. As a binder with quartz sand to make epoxy mortar or with wood flour for repairing cracks and holes in wood. When used with glass fibre it is ideal for use on car bodies, for repair, or the construction of models and engineering parts.

:: PRODUCT DATA

Specification-Liquid:	A-component (Resin)	B-component (Hardener)
Viscosity	ca. 1,000 mPa.s	ca. 700 mPa.s
Specific gravity	1.15 g/cm ³	1.0 g/cm ³
Colour	clear	clear to light yellowish
Shelf life	at least 6 months in unopened original container	
Specification - Mix:		
Mixing ratio A : B	100 : 60 parts by weight 100 : 70 parts by volume	
Pot life at 20°C	ca. 30 min.	
Specification - Cured:		
Shore D	ca. 80	



INSTRUCTIONS FOR USE

The ideal working temperature for both the surface onto which the resin is applied as well as the resin is 20° C. The pot life of the mixture at 20°C is approx. 30 minutes. The final material properties are achieved after 3-5 days, depending on temperature. At lower working temperatures (minimum 10° C), the pot life and curing time are extended. However, the pot life is highly dependant on the amount of the resin in the mixing container. When the working temperature is higher and a large quantity is being mixed the pot life will shorten due to the development of internal heat. Post cure at 50°C for 24 hours increases the chemical resistance and strength. When used as a binder for epoxy mortar, approx. 1:7 parts by weight (or approx. 1:3 parts by volume) quartz sand or powder is added to the mixed BK Resin. EPOXY BK can be pigmented by adding 1-5 % by weight of E.P. opaque pigment paste. A more transparent colour can be obtained by adding smaller amount of pigment paste.

When laminating, the amount of resin required is 3 times the weight of the glass fibre mat and one times the weight for glass fibre cloth.

Used as a coating the thoroughly mixed resin is applied with a brush or wool roller onto the prepared surface. It is recommended that porous surfaces are primed with G4. Sand blasted metal surfaces can be coated without primer. Normally a 2 coat application provides a thickness of 300-400 µm. The second coat must be applied within 24 hours, as long as the surface is slightly tacky. The consumption per coat of the resin is approx. 250 g/m². EPOXY BK can also be used for casting layers up to 3 cm thick.

SAFETY ISSUES

The before mentioned technical data and information, especially the recommendations for applying and using our products, are based on our current knowledge and experience when applied under normal conditions. In practice, the materials, surfaces or site conditions are so different that no warranty regarding the working results or liability, arising out of any relationship, can be inferred neither from this information nor from a verbal consultation, except we are charged with intent or gross negligence. In this case the user is obliged to prove that he has informed us about all points required for a proper and promising judgement in writing, in time and completely. Patent rights of any third party are to be observed. Furthermore, our general sales and delivery Terms and Conditions and the latest Technical Data Sheet, which should be demanded, apply.

Directions for handling and waste disposal are in our Security Safety Data Sheet together with the specifications of the Employers Liability Insurance Association for the chemical industry.

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