

RESIN	HARDENER	MIXING RATIO
EL BLACK Component A	Component B	100:15

INTRODUCTION:

Two component room temperature vulcanising compound based on suitable filled epoxy resins which cures with an appropriate hardener.

KEMIEPOX EL Black is free from solvents and plastifiers, is very hard and has an excellent dimensional stability. In addition to this, it is characterized by a very good electric and mechanical resistance and chemical stability.

APPLICATION:

KEMIEPOX EL BLACK is designed for manufacture of foundry models and moulds, insulation of electric circuits, creation of prototypes and insulation of acoustic equipments to avoid sound-waves scattering.

PROCESSING:

This resin is applied in open and interspaces castings, also in thick coats.

INSTRUCTIONS:

Homogenize the resin component before use to keep in suspension the light settlement eventually formed. Add the required quantity of the hardener separately, thoroughly mix. For the surface preparation (moulds or pattern) refer to the release agents data sheet.

POST-CURING:**STORAGE AND HANDLING**

1 year, stored in their original tightly closed containers in a dry and fresh place at temperatures in the range from +10°C to +30°C.

PRECAUTIONS:

TECHNICAL PROPERTIES (at +20°C and 60% R.H.)

Appearance (A+B)	black thick liquid
Mixing ratio (A+B)	100 + 15 parts in weight
Pot life (A+B) (minutes)	~ 60 for 550 gr. mass
Specific gravity comp. A (Kg./dm³)	1.860 ± 0.05
Specific gravity comp. B (Kg./dm³)	1 ± 0.05
Specific gravity (A+B) (Kg./dm³)	1.670 ± 0.05
Viscosity of mixture (A+B)	15000 ± 5000 mPas.
Hardness (Shore D)	> 92
Curing time	gel time (6 mm, - 100ml.) = 6 - 7 hours demoulding time (6mm. - 100 ml.) = 24hours complete curing = 7 days Resin Colour
Vitreous transmission Tg	55 - 60°C (after post-curing)
Elongation at break (%)	0.9 - 1 (after post-curing)
Tensile strength (MN/m²)	30 - 32 (after post-curing)
Flexing resistance (MN/m²)	50 (after post-curing)
Compressive strength (MN/m²)	80 - 90 (after post-curing)
Volumetric resistivity	ohm.cm 10 to 15a (after post-curing)
Superficial resistivity	ohm 10 to 14a
Dielectric constant	4.1
Maximum service temperature	+50°C

(*) for larger quantities pot life is shorter and the exothermic peak increases

NOTE. The information given to users is based on our best experience. However, because of the many possible applications, which are outside of our knowledge and control, we cannot accept liability for loss or damage resulting from reliance upon such information.