

100% SOLID EPOXY CASTING RESIN

DESCRIPTION

MAGIECHEM Epoxy Casting Resin MGC836 is a high quality, epoxy resin that can be used for all kinds of casting, moulding, coating and filling work. This two-part 2:1 epoxy is quite liquid in nature which allows it to be poured. It is made from unfilled epoxy resin and is mainly transparent with a slight inherent colour once it's cured.

MGC836 is versatile epoxy resin can be used in several ways. Depending on the application you can make it without fillers, or add other substances and materials to change its properties. Adding fabric or fibre for reinforcement, or powders for colouring or other special purposes, are all common occurrences.

AVANTAGES

- Easy mixing ratio 2A : 1B by volume
- Good balance of pseudo-plastic viscosity
- Excellent humidity resistance
- Excellent adhesion to several substrates (including wood, metal, epoxy sheet, fibreglass, most plastics, stone, concrete, glass and ceramics).
- Epoxy Casting Resin cures with very little shrinkage (0.2%) and forms a solid, hard epoxy that has very good strength characteristics. It will withstand temperatures between -35°C and +120°C and has very low thermal conductivity. Because it is an epoxy resin, **MGC836** has excellent electrical properties. Dielectric Strength is 14 kV/mm.
- Meets LEED requirement

APPLICATION

Mix the material before use

- Making moulded epoxy parts and components.
- Surface coating.
- Filling gaps and voids around support posts.
- Filling gaps in electrical insulation and in electrical components.
- Covering gaps.
- In all kinds of model making applications.
- Making repairs to tools and components.
- General repairs to boats and watercraft.
- General repairs and gap filling for workshops and facilities.

CAUTION

- Consult MSDS before use
- Epoxy Casting Resin **MGC836** covers gaps, fills voids or can be poured up to a maximum of 10mm per application. The pot life given is for a material quantity of approximately 500 grams at room temperature. If larger quantities are used, the curing time will be faster due to the typical reaction heat of epoxy resins (exothermic reaction). Similarly, higher ambient temperatures shorten the cure time (as a rule of thumb, every 10°C increase above room temperature will halve working time and cure time). Temperatures below +20°C will extend working time and cure time considerably while below around +5°C no reaction will occur.



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TECHNICAL INFORMATION

Color: TRANSPARENT CLEAR

V.O.C.: 0 gr/liters (0 lbs /galUS)

Mixing ratio: 2 parts A and 1 part B by volume

Pot Life: 20 minutes for 0.5 kg (1.1lbs)

Inductuion time: NO need

Diluent: up to 5 % of Xylene if needed

Recommended Thickness: up 1" one shot

Coverage: see below

Recoat: 8 to 24 hours with the same material,

24 to 48 Hours with other material depend to the temperature and % of te RH

Dry to touch: 6 hours

Complete cure: 7 days

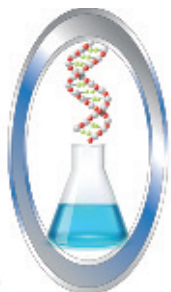
Solvent Cleaner: Isopropyl alcohol or Ketone

Shelf Life: 1 year in original unopened container

Packaging: 11.34L and 56.7Liter (3 and 15 Gal. US)

TECHNICAL SERVICES AND WARRANTY:

For assistance, consult a representative of MAGIECHEM products. The information contained in this data sheet is based on trials that we believe valid. However, when using the conditions depending on the application of our control. The seller and/ or the manufacturer disclaim any responsibility except to replace the product when proven defective.



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SURFACE/GALLON					
Épaisseur	10 mils	1/8"	1/4"	1/2"	1"
SF /Gallon	160	12.8	6.4	3.2	1.6

