

GECKOARC EPOXY BINDER

GARC Epoxy Binder is a versatile resin binder which is formulated with a range of epoxy curing agents of varying cure speeds. Typical applications include production and repair of GRP, encapsulation of components, casting of small components and small concrete repairs when mixed with suitable aggregates and bonding applications.

Both systems show excellent resistance to a wide range of inorganic chemicals when used to renovate concrete on mines and chemical plants. The Slow system has good light stability.

SYSTEM PROPERTIES

PART A

Appearance	Clear liquid
Viscosity at 25°C	1000 cps
Density	1.11 g/cm ³

PART B

	FAST	SLOW
Appearance	brown liquid	clear liquid
Viscosity	300 cps	100 cps
Density	1.10 g/cm ³	0.99 g/cm ³
Mix Ratio by weight or volume	100A:50B	100A:50B
Pot Life (100g) (25°C)	25 min	35 min
Thin film set (25°C)	2.5 hours	5 hours

PROCESSING

Measure the required amounts of Part A and Part B into a clean container and mix with a flat bladed spatula. Only mix sufficient material that can be used before the pot life expires. If mix is to be vacuum degassed ensure container is large enough to retain the rising mix.

Fillers such as talc may be added to the mixed Part A and B for casting and potting applications. Equal weights of mixed epoxy and filler is a good starting point.

For concrete repair the concrete should be prepared by grinding, high pressure washing or acid etching. When dry the concrete surface is primed with mixed liquid epoxy and

left to become tacky. Fine sand or other filler is added into the mixed epoxy at between 5 and 8 parts by volume of sand to 1 part by volume of mixed epoxy. The quantities of aggregate needed to give the required consistency depends on the aggregate grading. For repairing blow holes in concrete, a soft pasty mix can be prepared. A stiffer mix is required for high builds on vertical surfaces.

The use of K-Fill, a blend of graded sands and a small proportion of micro balloons, enhances trowelling characteristics.

Suggested sand additions

Mixed Resin Volume	Sand Volume	Consistency
1	1 to 2	Pourable
1	3 to 4	Flows out on horizontal
1	5 to 7	Trowels on vertical

The above are general recommendations only and mixing on site will determine the actual volume required

CURING

Cure times depends on the ambient temperature. At 25°C practical cure will be about 12 hours for the fast system and 24 hours for the slow system.