

High Impact Resistant Liquid Epoxy Adhesive

Technical Data Sheet

DESCRIPTION	Megapoxy 69 Liquid is a translucent type epoxy resin for structural bonding of: Metals to metals, metals to concrete and masonry, assembly of granite and marble fabrications and many other civil engineering applications requiring superior bond strengths. Megapoxy 69 Liquid is also ideal for structural timber joinery and applications in the marine environment. Megapoxy 69 Liquid retains its high strength after repeated high impact forces.	
ADVANTAGES	<ul style="list-style-type: none">• Simple 1:1 mix ratio• Nil VOC• Thick liquid texture, blends easily• Allows very thin glue lines• Very high strength permanent bonds• Tensile and Compressive strength superior to concrete• Does not shrink• Can be coloured	
PROPERTIES	Mixing Ratio	1 Part A to 1 Part B by volume
	Working Time	45 minutes at 25°C
	Pot-life	110 minutes at 25°C
	Hardness	74 Shore D
	Viscosity Part A	15,000 cps at 25°C
	Viscosity Part B	20,000 cps at 25°C
	Viscosity Mixed	17,500 cps at 25°C
	SG of Part A	1.16 at 25°C
	SG of Part B	0.97 at 25°C
	SG Mixed	1.05 at 25°C
	Colour Part A	Clear
	Colour Part B	Amber
	Colour Mixed	Pale Amber
	Minimum Cure Time at 15°C	48 hours
	Minimum Cure Time at 25°C	24 hours
	Minimum Cure Time at 35°	12 hours
CURED PROPERTIES	Maximum operating temperature	70°C
	Tensile Strength	30Mpa
	Compressive Strength	70Mpa
	Shear Strength	15Mpa
	Coefficient of Linear Expansion	60 x 10 ⁻⁶ mm°C

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SURFACE PREPARATION	<p>Mixing and the surface preparation are two of the most important factors to ensure proper bonding</p> <p>Metals:</p> <p>Surfaces should be cleaned by solvent wiping or degreasing.</p> <p>Surfaces should be grit blasted mechanically abraded</p> <p>Surfaces should be then cleaned by solvent wiping again.</p> <p>Wire brushing is not entirely satisfactory and gives minimal adhesion only.</p> <p>Timber:</p> <p>Abrade the surfaces to be bonded</p> <p>Remove any dust and make sure surfaces to be bonded are clean and free of oil.</p> <p>Stone and Ceramics:</p> <p>Surfaces should be cleaned</p> <p>Mechanically abrade surfaces to be bonded</p> <p>Remove any dust and allow to dry completely if water was used in the cutting or cleaning</p> <p>Plastics:</p> <p>Wipe all surfaces to be bonded with solvent</p> <p>Mechanically abrade surfaces to be bonded</p> <p>Wipe all surfaces with solvent and allow to dry</p> <p>*Some Plastics can be very difficult to bond, if there are any concerns, either trial the bonding process or contact our Technical Staff before starting your application*</p>
AVAILABILITY	<p>Megapoxy 69 Liquid is available in 4ltr kits.</p>
CLEANING	<p>To keep mixing implements and working tools clean use Megapoxy Thinners. Use disposable rubber gloves to protect hands and maintain proper industrial hygiene.</p>
TECHNICAL SERVICE	<p>All purchasers of Megapoxy products are invited to avail themselves of our technical service on epoxy resins. The methods and systems outlined in this bulletin are the best available at the present time, however continual research and development is being carried out and could result in change without prior notice.</p>