

### High Impact Epoxy For Electrical Castings For Room Or Elevated Temperature Service of Electrical Components

#### Technical Data Sheet

<b>DESCRIPTION</b>	Megapoxy E is recommended for encapsulation of instrument transformers, lighting transformers, small power transformers and coils, for electrical and electronic industries.		
	For service at temperatures up to 80°C with Hardener “E”	Use MEGAPOXY “E” Part “A”	
	For service at temperatures up to 150°C with Hardener 155	Use MEGAPOXY “E” Part “A”	
<b>PROPERTIES</b>		<b>Hardener E</b>	<b>Hardener 155</b>
	Mixing Ratio By Weight Resin	5	10
	Hardener	1	1
	Mixing Ratio by volume Resin	3	6
	Hardener	1	1
	Density mixed g/cm3	1.55	1.6
	Working Time at 25°C	60 Minutes	30 Minutes
	Minimum Curing time at 25°C	24 Hours	24 Hours
	Viscosity of E Part A	10000 - 15000 cps	10000 - 15000 cps
	Viscosity of E Part B	500 - 900 cps	18 - 24 cps
	Mixed Viscosity	3000 cps	6500 cps
	S.G. of E Part A	1.65-1.75	1.65-1.75
	S.G. of E Part B	0.95-0.97	0.90-0.95
Mixed S.G	1.55	1.60	
<b>PRODUCT SPECIFICATION</b>	Megapoxy E is suitable for casting electrical switchgear components and for mechanical and chemical resistant applications. Cured Megapoxy E has excellent static and dynamic mechanical properties as well as superior electrical and dielectric properties.		
<b>CURED PROPERTIES</b>	Ultimate Compressive Strength	80 MPa	100 MPa
	Martins Heat Distortion Temperature	65°C	127°C
	Typical Dielectric - Strength 50HZ, 25°C:	18KV/mm	19KV/mm
	Bond strength	20Mpa	20Mpa
	Hardness - Shore D - ASTM D2240-00	75	75

## Technical Data Sheet

<b>SURFACE PREPARATION</b>	Good adhesion can only be achieved if proper pre-treatment of surfaces to be bonded is carried out. Any surface impurities on the casting surfaces can reduce the bond strength or inhibit the bond to the items being encapsulated. It is recommended to clean all surfaces with acetone or isopropyl alcohol. Wire brushing is not an adequate surface preparation and will produce poor adhesion.
<b>AVAILABILITY</b>	Megapoxy E is available in 30kg kits. Megapoxy E-155 is available in 6kg and 27.5kg kits.
<b>CLEANING</b>	To keep mixing implements and working tools clean use Megapoxy Thinners. Use disposable rubber gloves to protect hands and maintain proper industrial hygiene.
<b>TECHNICAL SERVICE</b>	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.