

ELI-CAST FR/707/F
ELECTRO INSULATING RESIN RE-ENTREABLE

PRODUCT:	A light brown flexible, two component, ambient temperature curing electro insulating Resin	
DESCRIPTION:	A two pack Polyurethane Resin	
COLOUR:	Brown - semi transparent	
VISCOSITY / 25°C:	Free flowing liquid Resin: 800 - 900 mPa.s Hardener: 500 - 600 mPa.s Mixed: 650 - 700 mPa.s	
MIXING RATIO (by weight):	100 parts of Resin 50 parts of Hardener	
(by volume):	100 parts of Resin 50 parts of Hardener	
RECOMMENDED MIXING TIME / 25°C:	3 Minutes	
GELTIME / 25°C:	20 - 30 Minutes	
SETTING TIME / 25°C:	30 - 40 Minutes	
HARDNESS AFTER 24 HOURS CURE / 25°C:	Shore A 40 - 45	
EXOTHERM / 25°C: (5 kg casting)	Maximum 50°C	
SPECIFIC GRAVITY / 25°C:	Resin:	1,03 – 1,05 g/cm ³
	Hardener:	1,21 g/cm ³
	Mixed Resin:	1,1 – 1,15 g/cm ³
FLASHPOINT:	Resin:	175°C
	Hardener:	200°C
HEAT RESISTANCE:	Suitable for applications up to 45°C	
ADHESION TO CLEANED AND ROUGHENED PVC, ALUMINIUM, LEAD:	Good	

POLYETHYLENE: (Flame treated)	Good - Satisfactory
TENSILE STRENGTH:	Low - material yields
TEAR STRENGTH:	Low - material yields
WATER ABSORPTION: CASTING CURED 48h / 25°C:	After immersion in distilled water - 7 days 0,5 - 0,9% 14 days 1 - 1,5%
HYDROLYTIC STABILITY:	Stable
RESISTANCE:	To solvents, oil or grease: Poor Water, diluted Acids / Alkaline: Good
TYPICAL ELECTRICAL PROPERTIES:	Volume Resistivity / 25°C: Ohm-cm $4,5 \times 10^{15}$ Surface Resistivity / 25°C: Ohm-cm 2×10^{16} Dielectric Strength / 25°C: 19 KV/mm Dielectric Constant / 25°C: 3.05
TYPICAL APPLICATIONS:	The easy removability and permanent flexibility of the FR/707/F Resin makes the product particularly suitable for potting and encapsulating applications of electrical and electronic components where repeated access of the encapsulated components is of importance.
TOXICITY:	Very low toxicity at ambient temperatures. However, gloves should be worn and adequate ventilation must be ensured during application.
STORAGE STABILITY:	Resin plus Hardener must be stored under dry and cool conditions. Once the Resin or Hardener container has been opened the total contents must be used to avoid moisture contamination.
NOTICE:	The technical specification and/or our technical advice whether verbal, in writing or by trials is given in good faith and based on our test results obtained but without warranty. It does not release the user from the obligation to test the products supplied by us or any third party as to the suitability for the intended use. The application, use and processing of the products are beyond our control and Elite Chemical Industries (Pty) Ltd's legal obligation in respect of any sale of its products shall be determined by the terms of its conditions of sale.