

**ELI-CAST FR/453  
ELECTRICAL INSULATING RESIN**

PRODUCT:	Eli-Cast FR/453 is filler extended two part Polyurethane Resin	
COLOUR:	Resin:	Electro Brown
	Hardener:	Brownish clear
	Mixed:	Electro Brown
VISCOSITY / 25°C:	Resin:	5 000 – 5 500 mPa.s
	Hardener:	200 – 200 mPa.s
	Mixed:	2 000 – 2 500 mPa.s
APPLICATION:	By casting	
MIXING RATIO:	<u>By Weight</u>	<u>By Volume</u>
	100 parts of Resin	100 parts of Resin
	25 – 26 parts of Hardener	34 – 35 parts of Hardener
SPECIFIC GRAVITY:	Resin:	1.65 g/cm <sup>3</sup>
	Hardener:	1.20 g/cm <sup>3</sup>
POTLIFE / 25°C:	30 Minutes	
GELTIME / 25°C:	35 – 40 Minutes	
SETTING TIME / 25°C:	1 – 1¼ Hours	
EXOTHERM: (500ml volume)	Maximum 60°C	
ADHESION:	To PVC, Aluminium, Lead, Copper:	Very good
	To Cleaned, Flamed Polyethylene:	Good
FLASHPOINT:	> 200°C	
HEAT RESISTANCE:	Maximum 80°C	
HARDNESS: (Cured 24h / 25°C)	Shore D: 80 – 85	
DIELECTRIC STRENGTH: (Method 210C)	21 kV/mm	
VOLUME RESISTIVITY:	10 x 10 <sup>12</sup> Ohm/cm	
RESISTANCE:	To Water, Oil, diluted Acids, Alkaline:	Very good
	Solvents: Aromatic / Aliphatic Hydrocarbons:	Good
	Esters, Ketons, Chlorinated Hydrocarbons: (Individual tests are recommended)	Not resistant

HYDROLYTIC STABILITY:	Excellent
WATER ABSORPTION:	(After 24 hour immersion in distilled water): 0.3 %
STORAGE STABILITY:	12 Months stored under dry and cool conditions in sealed packaging
TOXICITY:	Very low toxicity at ambient temperatures. However, gloves must be worn and adequate ventilation must be ensured during application.
NOTICE	<p>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 application.</p> <p>The application, use and processing of the products are beyond our control and Elite Chemical Industries legal obligation in respect of any sale of its products shall be determined by the terms of its conditions of sale.</p>