



**TECHNICAL DATA**

**NP1434**

**CLEAR ELECTRICAL EPOXY RESIN SYSTEM**

**Water Resistant**

**Product Description**

NP1434 is a two-component unfilled epoxy resin system. The resin forms an excellent transparent, water resistant barrier around encapsulated components. The resin is flexible and adhesive, protecting components subjected to thermal fluctuations.

**The LED Range of Resins**

The NP1434 two-component clear epoxy from our LED range of resins has been developed for difficult environmental conditions. The system is slightly flexible (Shore D 70) and cures with a relatively low exothermic temperature rise (for an epoxy) with a 30-minute gel. It does have a slight colour but this does not significantly yellow with weathering. The very low water uptake (0.3%/30 days) has meant that the NP1434 system is the choice for LED indicators in marine and chemical environments.

**Features**

- \* Clear
- \* Slightly Flexible
- \* Excellent Electrical properties
- \* Water Resistant

**Typical Uncured Physical Properties**

Property	Base	Hardener	Mixed System
Viscosity (mPas)	2100	100	700
Colour	Clear	Clear Straw	Clear
Specific Gravity	1.15-1.17	0.97	1.10-1.12
Mix Ratio	100	80	By Weight
	100	100	By Volume



Pot Life	15 Minutes	100 g @ 23°C
Gel Time	25 Minutes	100 g @ 23°C
Full Cure	7 Days	100 g @ 23°C
Peak Exotherm	+160	°C / 200 g
Time to Peak Exotherm	28	Minutes / 200 g

### Typical Cured Properties

Property	Result	Units
Operating Temperature	-40 to +125	°C Continuous
Shore D Hardness	70	After 72 hours
Electric Strength	15	kV/mm
Continuous Tracking Index	>850	V
Thermal Conductivity	0.2	W/mK
Deflection Temperature	30	°C (Approx)

Note: The above technical information and data should be considered representative or typical only and should not be used for specification purposes.

Supply	Details
Twinpacks	Ideal for mixing without the entrapment of air.
Kits	The resin base and hardener are supplied in two separate containers, pre-weighed to facilitate accurate mixing for larger applications.
Bulk	Available in proportioned containers.
Shelf Life	The materials should be stored in the original unopened containers under cool dry conditions at temperatures between 10 and 25°C. The shelf life is one year. Opened containers should be resealed.



## Precautionary Information

Refer to Product Label and Material Safety Data Sheet for health and safety information before using this product. All Products should be used in accordance with your own COSHH Assessments. For additional health and safety information, call 01373 858234.

## Technical Information

The technical information, recommendations and other statements contained in this document are based upon tests or experience that ALH believes are reliable, but the accuracy or completeness of such information is not guaranteed.

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