



ALH Systems Limited

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TECHNICAL DATA

NP1480

WATER CLEAR POLYURETHANE POTTING COMPOUND

Product Description

NP1480 is a two-component water clear polyurethane potting compound that is stable in continuous UV light. The system reacts at room temperature to produce a tough abrasion resistant material with good hydrolysis resistance.

The LED Range of Resins

The NP1480 two component, water clear polyurethane is the proven workhorse of the LED range of resins, and is available in 1:1 cartridges, Twinpacks and Bulk for machine dispensing. The low mix viscosity (10 Poise) and convenient gel time (15 minutes) make the system easy to use. The UV stable NP1480 resin has a Shore A hardness of 85 with an elongation of 150% providing a toughness and abrasion resistance suitable for most applications.

Features

- * Very Clear
- * UV Stability
- * Excellent Electrical properties
- * Water Resistant
- * Tough & Abrasion Resistant

Applications

- * Assemblies
- * Tracks
- * Arrays
- * Luminaires
- * Uplights
- * Doming

Typical Uncured Physical Properties

Property	Base	Hardener	Mixed System
Viscosity (mPas)	300	2000	1000
Colour	Clear	Clear	Clear
Specific Gravity	1.05	1.12	1.08
Mix Ratio	100	107	By Weight
	100	100	By Volume



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Pot Life	10 Minutes	100 g @ 23°C
Gel Time	12-15 Minutes	100 g @ 23°C
Full Cure	24 Hours	100 g @ 23°C

Typical Cured Properties

Property	Result	Units
Operating Temperature	-40 to +120	°C Continuous
Shore A Hardness	85	After 48 hours
Electric Strength	15	kV/mm
Continuous Tracking Index	>850	V
Thermal Conductivity	0.3	W/mK
Deflection Temperature	40	°C (Approx)
Tensile Strength	15	MPa
Elongation at Break	150	%

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 6 months. Opened containers should be resealed.



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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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