



TECHNICAL DATA

NP1483

WATER CLEAR POLYURETHANE POTTING COMPOUND

Product Description

NP1483 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 NP1483 two-component, water clear polyurethane from our LED range of resins has been developed for doming applications. The higher viscosity produces a proud dome over substrates, and with the 25 to 50-minute gel, the possibility of surface blemishes is reduced. The NP1483 PU system has improved adhesion to a wide range of materials and the crystal-clear finish is shown not to be affected in our weathering tests.

Features

- * Long Pot Life
- * Very Clear
- * UV Stability
- * Excellent Electrical Properties
- * Water Resistant
- * Tough & Abrasion Resistant

Applications

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

Typical Uncured Physical Properties

Property	Base	Hardener	Mixed System
Viscosity (mPas)	300	2000	1100
Colour	Clear	Clear	Clear
Specific Gravity	1.04	1.12	1.08
Mix Ratio	100	108	By Weight
	100	100	By Volume



Pot Life	20 - 25 Minutes	100 g @ 23°C
Gel Time	25-50 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)

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.
Cartridges	50 ml/250 ml/400 ml – Mix without the entrapment of air or pot-life issues; resin is delivered directly to component; can be automated.
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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Version: 2
Date: August 2019