

L922 – High Performance UV Adhesive

Characteristics

- ❑ Perfect for areas of high humidity
- ❑ Liquid – easy to dispense
- ❑ Cures with UV-A light (395nm) in seconds
- ❑ Creates a tough plastic film
- ❑ High tensile strength
- ❑ Non-flammable
- ❑ One-component adhesive, no need for hardeners
- ❑ Indefinite working time – cures on demand
- ❑ Invisible bond line

Recommended For

Moisture-rich environments
Fibre optics
Glass decoration
OLED screens
Circuit boards/Electronics
Signage
Automotive
Hobbyists/DIY

Description

Glassbond High Performance UV Adhesive L922 is a UV light-cured, one-component adhesive developed specifically for a range of specialised applications where high humidity is present. Designed for a long lifetime in moisture rich environments. This grade demonstrates elongated working time until a final cure is required. Best suited to applications that use at least one transparent substrate and is ideal for glass to glass or glass to metal bonding.

Physical properties

Appearance	Clear to colourless gel
Specific gravity (at 25°C)	1.1g/cm ³
Viscosity (at 25°C, S6 @ 20rpm)	19,500 – 22,500cps
Flash point	>100°C
Shelf life	12 months at 2-10°C in original unopened packaging

Cured properties

Appearance	Clear, colourless
Refractive index	1.48
Hardness (Shore D)	50 - 70

Glassbond High Performance UV Adhesive L922 can also be used in potting applications by building up multiple, thin layers of cured adhesive over time, in the target area.

Physical properties were determined on specimens prepared under laboratory conditions. Actual field conditions may vary and yield different results; therefore, data are subject to reasonable deviation. Data should not be used for specification purposes.

Application / Instructions

PREPARATION – Bring the adhesive to room temperature prior to use and ensure the surfaces to be bonded are clean and free from dirt or grease. Cleaning can be carried out with standard grade solvents such as IMS or acetone. This adhesive uses UV light to cure so a suitable light source should be acquired to initiate cure.

APPLICATION - Ensure one of the substrates that is to be adhered is transparent and aim for complete coverage of the target area. Apply Glassbond High Performance UV Adhesive L922 to one substrate and hold the parts together firmly by hand. Keep both substrates steady and expose as much of the bond line as possible to UV light. If the substrates are able to be clamped together the tensile/torque strength can be improved.

Setting / Curing

When bonding glass to metal Glassbond High Performance UV Adhesive L922 displays a thixotropic nature and an elongated working time. It will not form a hand-tight grip until it is exposed to UV light. Suitable pressure by hand/clamp should be applied when bonding. Full strength will be achieved after sufficient UV light exposure (365 – 420nm) and 24 hours at room temperature. For optimum results we recommend a high intensity UV-A light source and a wavelength of 395nm. Cure time, surface tack and depth of cure through the adhesive are fully dependent upon the mass of adhesive used, UV exposure time, the spectral output and intensity of the UV light and the transmittance of the substrates to be bonded.

Packaging

This material is supplied in various types and sizes of containers. Please contact Glassbond for further details (sales@glassbond.co.uk).

Shelf Life

Glassbond High Performance UV Adhesive L922 has a shelf life of 12 months when stored in unopened, tightly sealed containers in a dark and dry location at 2°C to 10°C. Maximum storage temperature is 25°C. HDPE containers do not offer a complete barrier, store away from other chemicals and sources of humidity. Strong light exposure can discolour and adversely affect the product. If there is doubt as to the quality of the material, consult Glassbond.

Caution

Consult the Material Safety Data Sheets and container label caution statements for any hazards in handling this material.

Warranty

We warrant that our goods will conform to the description contained in the order and that we have good title to all goods sold. WE GIVE NO WARRANTY, WHETHER OF MERCHANTABILITY, FITNESS FOR PURPOSE OR OTHERWISE, EXPRESS OR IMPLIED, OTHER THAN AS EXPRESSLY SET FORTH HEREIN. Users shall determine the suitability of the product for intended application before using.