

### L955 – High Performance UV Adhesive

#### Characteristics

- ❑ Liquid – easy to dispense
- ❑ Cures with UV-A light (365nm) in seconds
- ❑ High humidity resistance
- ❑ High tensile strength
- ❑ Non-flammable
- ❑ One-component adhesive, no need for hardeners
- ❑ Indefinite working time – cures on demand
- ❑ Invisible bond line

#### Recommended For

Glass decoration  
Fibre Optics  
OLED screens  
Circuit boards/Electronics  
Signage  
Automotive  
Hobbyists/DIY

#### Description

Glassbond High Performance UV Adhesive L955 is a UV light-cured, one-component adhesive developed specifically for a range of specialised applications. This grade demonstrates elongated working time until a final cure is required. Best suited to applications that use at least one transparent substrate such as glass or thermoplastic. Demonstrates enhanced performance when bonding acrylics and thermoplastics.

#### **Physical properties**

Appearance	Colourless liquid
Specific gravity (at 25°C)	1.1 g/cm <sup>3</sup>
Viscosity (at 25°C, S6 @ 20rpm)	6,000 – 9,000 cP
Flash point	>100°C
Shelf life	9 months at 2-10°C in original unopened packaging

#### **Cured properties**

Appearance	Colourless
Refractive index	1.471
Hardness (Shore D)	40 – 50
Water Absorption rate (ISO 62)	<1% (2h boiling water)

Glassbond High Performance UV Adhesive L955 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 L955 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 L955 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 365nm. 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](mailto:sales@glassbond.co.uk)).

## **Shelf Life**

Glassbond High Performance UV Adhesive L955 has a shelf life of 9 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.