

LOCTITE ECCOBOND LV4518-38

January 2014

PRODUCT DESCRIPTION

LOCTITE ECCOBOND LV4518-38 provides the following product characteristics:

Technology	Acrylate
Appearance	Yellow-green liquid
Product Benefits	<ul style="list-style-type: none"> • One component • UV curable • Cures in shadowed areas with heat • Fast processing time • Thixotropic • Phosphorescent for inspection systems
Cure	Ultraviolet (UV) light or Ultraviolet (UV) light & heat cure
Application	Sealant
Key Substrates	Gold and various plastics

LOCTITE ECCOBOND LV4518-38 thixotropic, solvent resistant, UV curing sealant formulated for gold and plastic substrates such as polyester and polyetherimide. It may be syringe-dispensed to form a low profile sealant based at the metal/plastic interface. This product also contains a secondary thermal cure mechanism for applications that contain shadowed areas where light is unable to penetrate.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity, Brookfield, 25 °C, mPa·s (cP):	
Spindle 5, speed 10 rpm	42,000
Thixotropic Index (1/10 rpm)	6.5
Shelf Life @ 0 to 4°C, days	60
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE

Recommended UV Cure

Light Source and Condition:	
Fusion D UV Lamp:	
Light Intensity, W/in	200
Exposure Time, seconds	5
Depth of cure, mils	60

Secondary Thermal Cure Condition

20 minutes @ 110°C

The above cure profiles are guideline recommendations. Cure conditions (time and temperature) may vary based on customers' experience and their application requirements, as well as customer curing equipment, oven loading and actual oven temperatures.

TYPICAL PROPERTIES OF CURED MATERIAL

Physical Properties:

Hardness, Shore D	50
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GENERAL INFORMATION

For safe handling information on this product, consult the Material Safety Data Sheet, (MSDS).

DIRECTIONS FOR USE

1. Syringe dispense ECCOBOND LV 4518-2 using a small gauge (15-25) needle.
2. LOCTITE ECCOBOND LV4518-38 will flow but not self-level.

Storage

Store in original, tightly covered containers in clean, dry areas. Storage information may be indicated on the product container labeling.

Optimal Storage : 0 to 4 °C

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Technical Service Center or Customer Service Representative.

Conversions

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$
 $\text{kV/mm} \times 25.4 = \text{V/mil}$
 $\text{mm} / 25.4 = \text{inches}$
 $\text{N} \times 0.225 = \text{lb}$
 $\text{N/mm} \times 5.71 = \text{lb/in}$
 $\text{N/mm}^2 \times 145 = \text{psi}$
 $\text{MPa} = \text{N/mm}^2$
 $\text{MPa} \times 145 = \text{psi}$
 $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$
 $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$
 $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$
 $\text{mPa}\cdot\text{s} = \text{cP}$

Disclaimer

Note:

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