

LOCTITE ECCOBOND UV9000

April 2014

PRODUCT DESCRIPTION

LOCTITE ECCOBOND UV9000 provides the following product characteristics:

| | |
|------------------------------|--|
| Technology | Acrylate |
| Appearance | Fluorescent blue |
| Components | One-component |
| Product Benefits | <ul style="list-style-type: none"> • Fast cure • One component • Dual cure • Thixotropic • Solvent resistant • Low profile bead • Good adhesion to plastics |
| Cure | Ultraviolet (UV) light or Ultraviolet (UV) light & heat cure |
| Application | Adhesive and Sealant |
| Operating Temperature | -40 to 100 °C |
| Surfaces | Polyester, Polyetherimide and Gold |

LOCTITE ECCOBOND UV9000 is a dual cure sealant and adhesive that can be syringe dispensed.

TYPICAL PROPERTIES OF UNCURED MATERIAL

| | |
|------------------------------|--------|
| Viscosity, Brookfield | |
| Spindle 5, speed 10 rpm | 25,000 |
| @ 25°C, mPa·s (cP): | |
| Spindle 5, speed 10 rpm | 25,000 |
| Thixotropic Index (1/10 rpm) | 5.9 |
| Specific Gravity | 1.06 |
| Shelf Life @ 4°C, days | 165 |
| Flash Point - See SDS | |

TYPICAL CURING PERFORMANCE

Recommended UV Cure Condition

Light Source and Condition:

Medium pressure mercury vapor lamp:

| | |
|-----------------------|-----|
| Light Intensity, W/in | 200 |
| Exposure Time | 5 |
| Depth of cure, mils | ≤50 |

Cure Schedule

20 minutes @ 110°C

Areas hidden or shadowed from the UV light source can be cured by heating after UV exposure per the cure schedule.

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 | 60 |
|-------------------|----|

GENERAL INFORMATION

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

DIRECTIONS FOR USE

1. Complete cleaning of the substrates should be performed to remove contamination such as oxide layers, dust, moisture, salt and oils which can cause poor adhesion or corrosion in a bonded part.
2. Dispense using a small gauge needle (15 to 25 gauge). LOCTITE ECCOBOND UV9000 will flow to fill gaps but does not run or drip.

STORAGE:

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

Optimal Storage : 4 °C

Avoid heat, light and moisture.

This material may polymerize upon contact with certain metals. Contact with Brass, Copper, Iron and Aluminum should be avoided.

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.

Not for product specifications

The technical data contained herein are intended as reference only. Please contact your local quality department for assistance and recommendations on specifications for this product.

Conversions

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

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The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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Reference 0.2

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