

# LOCTITE ECCOBOND UV 4003

November 2016

## PRODUCT DESCRIPTION

LOCTITE ECCOBOND UV 4003 provides the following product characteristics:

<b>Technology</b>	Epoxy
<b>Appearance</b>	Clear
<b>Product Benefits</b>	<ul style="list-style-type: none"> <li>One component</li> <li>UV curable</li> </ul>
<b>Cure</b>	Ultraviolet (UV) light
<b>Application</b>	Opto/Photonics

LOCTITE ECCOBOND UV 4003 UV cure adhesive is designed for high throughput assembly operations.

## TYPICAL PROPERTIES OF UNCURED MATERIAL

Nonvolatile content, %	100
Viscosity, Brookfield - RVT, 25 °C, mPa·s (cP):	
Spindle 4, speed 10 rpm	3,000
Specific Gravity @ 25°C	1.06
Shelf Life @ 25°C (from date of manufacture), days	180
Flash Point, °C	74

## TYPICAL CURING PERFORMANCE

### Recommended UV Cure

Light Source and Condition:	
Medium pressure mercury lamp	
Spectral Output, watts	200 to 300
Conveyor Speed	5 to 10

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	65
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### Electrical Properties

Dielectric Strength, volts/mil	500
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## GENERAL INFORMATION

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

## DIRECTIONS FOR USE

1. Surface cleaning with solvents such as isopropanol or acetone is recommended prior to application.
2. Coating should be applied at a maximum of 3 mils.
3. Thicker sections would require multiple applications and curing.

## STORAGE:

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

## Optimal Storage : 25 °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

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

## Disclaimer

### Note:

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Reference 1

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