

# LOCTITE ABLESTIK 2116

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## PRODUCT DESCRIPTION

LOCTITE ABLESTIK 2116 provides the following product characteristics:

<b>Technology</b>	Epoxy
<b>Color</b>	Milky, translucent
<b>Components</b>	Two part - Resin & Hardener
<b>Cure</b>	Room temperature cure or Heat cure
<b>Operating Temperature</b>	-60 to 130 °C
<b>Product Benefits</b>	<ul style="list-style-type: none"> <li>• Non-conductive</li> <li>• Solvent-free</li> <li>• Good physical strength</li> <li>• Room temperature cure</li> <li>• Provides environmental resistance</li> <li>• Chemical resistant</li> </ul>
<b>Mix Ratio, by weight - Resin : Hardener</b>	100 : 22
<b>Application</b>	Staking compound
<b>Key Substrates</b>	Metals , Glass, Ceramics and Most plastics

LOCTITE ABLESTIK 2116 adhesive is designed for bonding and enhancing the mechanical and structural rigidity of assemblies. LOCTITE ABLESTIK 2116 bonds offer resistance to weather, galvanic action, most petroleum solvents, lubricants, gasoline, jet fuel, alcohol, salts, mild acids and alkalis.

LOCTITE ABLESTIK 2116 passes NASA outgassing standards.

## TYPICAL PROPERTIES OF UNCURED MATERIAL

Mixed Viscosity @ 25 °C, mPa·s (cP)	100,000
Specific Gravity, mixed	1.26
Pot Life , minutes	30
Flash Point - See SDS	

## TYPICAL CURING PERFORMANCE

### Cure Schedule

24 hours @ 25°C or  
4 hours @ 65°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	90
Glass Transition Temperature (T <sub>g</sub> ), °C	115
Coefficient of Expansion, cm/cm/°C	5.5×10 <sup>-5</sup>
Izod Impact Strength, ft-lb/in. of notch	0.22
Reactive solids contents, %	100

## Electrical Properties

Volume Resistivity , ohm-cm:	
@ 25°C	6×10 <sup>13</sup>
@ 100°C	1×10 <sup>10</sup>
Dielectric Strength, volts/mil	415
Dielectric Constant/Dissipation Factor @ 1 KHz	4.5/0.01

## TYPICAL PERFORMANCE OF CURED MATERIAL

Sample cured 1 hour @ 65°C

### Shear Strength

Lap Shear Strength :

Alum to Alum	N/mm <sup>2</sup>	17
	(psi)	(2,500)

## GENERAL INFORMATION

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

## DIRECTIONS FOR USE

1. Carefully clean and dry all surfaces to be bonded.
2. Some separation of components is common during shipping and storage. For this reason, it is recommended that the contents of the shipping container be thoroughly mixed prior to use.
3. Some ingredients in this formulation provided in BIPAX, TRA-PAX and bulk packaging may crystallize when subjected to low temperature storage. A gentle warming cycle of 52°C for 30 minutes prior to mixing components may be necessary. Crystallized epoxy components do not react as well as liquid components and should be redissolved prior to use for best results.
4. Remove clamp and thoroughly mix the LOCTITE ABLESTIK 2116 epoxy adhesive system components in the handy BIPAX mixing-dispenser package until color is uniform throughout.
5. Apply this completely mixed adhesive to the prepared surfaces, and gently press these surfaces together. Contact pressure is adequate for strong, reliable bonds; however, maintain contact until adhesive is completely cured.

## 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.

## Storage

The expiration date for pre-mixed and frozen materials is based upon dry storage conditions at or below the temperature indicated on each package. Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

## Optimal Storage : 27 °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. Contents may separate during storage. Resin or hardener in bulk containers (e.g., quarts, gallons) should be thoroughly mixed prior to combining them to obtain all the benefits of the properties designed into the formulation.

#### 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:

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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