



## LOCTITE EA 7000 AERO\*

### Formulated to Provide Excellent Performance Properties in Composite Bonding

LOCTITE EA 7000 AERO has excellent performance properties in composite bonding, and superior results on composite surfaces that have been exposed to bond shop environments and may have absorbed moisture. It also exhibits excellent fracture toughness ( $G_{1c}$ ) over composite surfaces exhibiting cohesive failure patterns, indicating superior adhesion characteristics.

#### Features

- Good  $G_{1c}$  results on cured composites with residual moisture
- Qualified by major OEMs

\*LOCTITE EA 7000 AERO is also known as Hysol PL 7000

## LOCTITE EA 7000 AERO • Applications

### Benefits

- Good durability with cohesive failure on pre-cured composites
- Good durability under secondary shop floor processes, such as attaching fasteners and hardware; minimizes adhesive flash on tools, improving productivity on cleaning tools
- Excellent peel and -67 °F (-55 °C) properties
- Excellent hot-wet resistance
- Dual temperature cure capabilities 250 °F (121 °C) or 350 °F (180 °C)

### Structural Aerospace Applications

- Composite repair
- Composite surfacing
- Bonding pre-cured composite
- Co-curing with composite prepregs



### LOCTITE EA 7000 AERO properties

<b>Type</b>	Modified epoxy film available supported or unsupported
<b>Scrim</b>	Non-woven polyester – others available upon request
<b>Weight</b>	0.03 – 0.10 lbs/sf (146 - 488 g / m <sup>2</sup> )
<b>Thickness</b>	0.005 – 0.017" (0.0127 - 0.043 cm)
<b>Color</b>	Green
<b>Width</b>	Std. 36" (Optional 48")
<b>Volatiles</b>	< 1 %
<b>Out Time</b>	> 30 days at 90 °F, 50 % RH
<b>Shelf Life</b>	> 2 years at 0 °F (-18 °C)
<b>Gel Time (RDS)</b>	~ 45 minutes when heated from 50 °C at 2 °C/minute, 2 % strain, 10 rad / sec

#### NORTH AMERICA

##### Henkel Corporation Aerospace

P.O. Box 312,  
2850 Willow Pass Road  
Bay Point, CA 94565 /  
United States  
Tel.: +1 925 458 8000  
Fax: +1 925 458 8030

#### EUROPE

##### Henkel Aerospace

82, Rue de Maubec  
31300 Toulouse / France  
Tel.: +33 5 34 36 40 60  
Fax: +33 5 34 36 40 69

#### ASIA

##### Henkel (China) Co. Ltd

No. 928 Zhang Heng Road,  
Pu Dong, 201203 Shanghai /  
China  
Tel.: +86 21 2891 8000  
Fax: +86 21 2891 8971

#### LATIN AMERICA

##### Henkel Brazil Ltda

Rua Karl Huller, 136  
Diadema – SP  
Brazil, 09941-410  
Tel.: +55 11 3205 8955

[www.henkel.com/aerospace](http://www.henkel.com/aerospace)

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