



Developmental technology.

#### L&L BOND XP-436

## Toughened Ambient Curing Structural Adhesive with Superior Peel Resistance.

L&L Bond XP-436 is a two-component, ambient temperature cure, toughened structural adhesive. Compared to similar adhesives, this material is typically insensitive to surface contamination and exhibits super wedge impact strength, excellent lap shear and peel strengths, and excellent anticorrosive properties. The material is isocyanate-free for safer handling.

[lproducts.com](http://lproducts.com)

## Isocyanate-Free Bonding with Anticorrosive Properties.

L&L Bond XP-436 has good adhesion to surfaces where lubricants and mold release agents are present. Its superior resistance to acids, alkalis, and certain solvents after curing also makes this material well-suited for use as an anticorrosive.

L&L Bond XP-436 is designed for general structural bonding, including automotive applications and applications where high-temperature curing is not feasible.



**L&L Bond XP-436 is well-suited for collision repairs.**



**Lap Shear Strength  
Clean Metal<sup>1</sup>  
19.8 MPa**

**With Lubricant  
Contamination<sup>2</sup>  
9.8 MPa**



**Peel Strength<sup>3</sup>  
6.5 N/mm**



**Wedge Impact<sup>4</sup>  
(avg peel load)  
32.8 N/mm**

<sup>1</sup> 0.060" EG60, test speed: 2 in/min, bondline 0.25 mm

<sup>2</sup> 0.060" EG60, 2.5-3.0 mg/in<sup>2</sup> Feurocote 61MAL HCL, test speed 2 in/min, bondline 0.25 mm

<sup>3</sup> 0.030" EG60, test speed: 10 in/min, bondline 0.25 mm

<sup>4</sup> 0.030" EG60, test speed: 2 m/s, drop weight 25 kg, bondline 0.25 mm

### VALUE PROPOSITION

- Combination of high-strength and impact-resistance
- Isocyanate-free
- Excellent adhesion to a variety of substrates, including metals, including electroplated metals, and composites
- Relatively insensitive to surface contamination, including lubricants and mold release agents
- Excellent resistance to humidity and corrosive mediums
- Tunable fixture time and open time

### KEY PRODUCT ATTRIBUTES



#### HIGH STRENGTH

- High lap shear and peel strength
- High wedge impact peel strength



#### DESIGN FLEXIBILITY

- Bonds to a wide variety of substrates
- Resistance to acids, alkalis, and certain solvents

### POTENTIAL APPLICATIONS



#### AUTOMOTIVE REPAIR APPLICATIONS

Ambient temperature-cured L&L Bond XP-436 bonds new body panels to a repaired vehicle in place of original heat-cured adhesives.



#### RAIL & BUS ASSEMBLY

Ambient temperature-cured L&L Bond XP-436 replaces mechanical fasteners and costly weld operations.



#### ANTICORROSION

L&L Bond XP-436 has superior resistance to acids, alkalis, and certain solvents after curing, also makes this material well-suited for use as an anticorrosive coating.



#### PROCESS OPTIMIZATION

- Ambient temperature curing
- Typically bonds to oily surfaces
- High viscosity



#### SAFE & EASY HANDLING\*

- Contains no solvents or other volatiles

\*Always follow SDS guidelines for safe handling.

