

## Technical Data Sheet Tuffbond<sup>®</sup> 303

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### Product Description

**Hernon<sup>®</sup> Tuffbond<sup>®</sup> 303** adhesive/sealant is a two component, 100% solid system, one to one ratio, room temperature cure system.

### Typical Applications

- Metal coating applications
- Underwater coating
- Potting electrical components

### Typical Properties (Uncured)

Property	A- Resin	B- Hardener
Chemical Type	Epoxy	Amine
Color	Black	Light Yellow
Viscosity at 25°C, cP	90,000-110,000	85,000-105,000
Mix Ratio	1 Part	1 Part
Specific gravity at 25°C	1.185	1.003

### Typical Cured Properties

Property	Value
Working Life at 25°C, 20g, 1:1 ratio (min.)	40 to 60
Thermal Conductivity, W/m °K	0.26
Glass Transition Temperature, (Tg) °C	77
Hardness, Shore D, ASTM D2240	70-80

### Typical Cured Performance

Shear Strength on lap-shear specimens tested according to ASTM D1002.

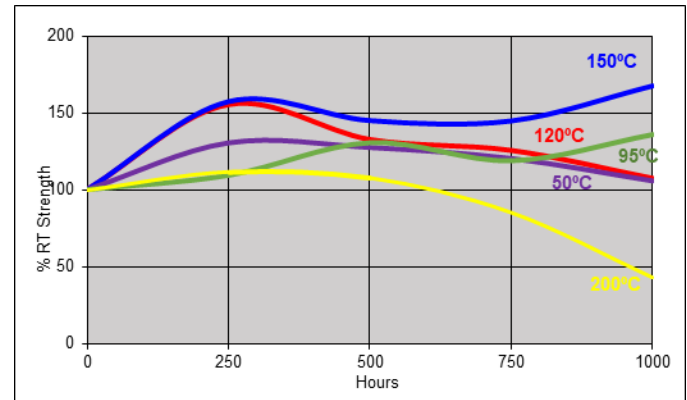
Cure Time at 22°C	Shear Strength (psi)
24 Hours (Steel)	≥ 2,000

### Typical Environmental Resistance

Shear Strength on steel lap-shear specimens tested according to ASTM D1002.  
Cured for 72 hours at 22°C.

### Heat Aging

Aged at temperature indicated and tested at 22°C.



### General Information

**This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.**

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

### Storage

**Tuffbond<sup>®</sup> 303** should be stored in a cool, dry location in unopened containers at a temperature between 45°F to 85°F (7°C to 29°C) unless otherwise labeled. Optimal storage is at the lower half of this temperature range. To prevent contamination of unused material, do not return any material to its original container.

### Dispensing Equipment

**Hernon<sup>®</sup>** offers a complete line of semi and fully automated dispensing equipment. Contact **Hernon<sup>®</sup> Sales** for additional information.

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