

Technical Data Sheet Tuffbond® 313

February 2010

Page 1 of 1

Product Description

Hernon® Tuffbond® 313 adhesive/sealant is a two component, 100% solid system, one to one ratio, room temperature cure system. Tuffbond® 313 is recommended for bonding metals, wood, ceramics, etc., and can be used for potting and encapsulation of electrical and electronic components.

Typical Applications

- Tank lining
- Chemical resistant flooring
- Marine coating
- Underwater coating
- Potting electronic boards
- Encapsulating electrical and electronic components

Product Benefits

- Excellent resistance to organic acids and bases.
- Good mechanical properties.
- Outstanding resistance to abrasion.
- Non-critical mixing.

Typical Properties (Uncured)

Property	Part A	Part B
Base	Epoxy	Amine
Appearance	Clear	Amber
Viscosity at 25°C, cP	18,000 to 25,000	18,000 to 25,000
Mix Ratio by Weight	1	1
Specific Gravity	1.17	0.97
Flash Point	See MSDS	See MSDS

Typical Properties (Cured)

Property	Value
Working Life at 22°C (100g), minutes	40 to 60
Tensile Strength, psi, ASTM D638	5700 - 7100
Hardness, Shore D, ASTM D2240	79
Coefficient of Thermal Expansion, in/in/ °C ASTM D696	76×10^{-6}
Volume Resistivity, ohm-cm, ASTM D696	7.1×10^{12}
Glass Transition Temperature, (Tg) °C	71
Flash-Ignition Temperature, °C, ASTM D1929	360
Spontaneous-Ignition Temperature, °C, ASTM D1929	460
Shear Strength – Aluminum, psi ASTM D1002	3200
Temperature Range	-65 to 300 °F (-53 to 149 °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 Material Safety Data Sheet (MSDS).

Storage

Tuffbond® 313 should be stored in a cool, dry location in unopened containers at a temperature between 46°F to 82°F (8°C to 28°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® offers a complete line of semi and fully automated dispensing equipment. Contact **Hernon® Sales** for additional information.

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