

121 Tech Drive Sanford, FL 32771 (407) 322-4000 Fax: (407) 321-9700 www.hernon.com

Technical Data Sheet Tuffbond[®] 315

February 2010

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Product Description

Hernon[®] **Tuffbond**[®] **315** is a modified epoxy adhesive that provides a fast room temperature cure. **Tuffbond**[®] **315** exhibits very good moisture chemical and heat resistance. This fast cure epoxy adhesive is specially formulated for rapid in-line assembly of loud speakers. **Tuffbond**[®] **315** is also recommended for bonding metals, wood, ceramics, etc., and can be used for potting and encapsulation of electrical and electronic components.

Typical Applications

- Bonding voice coil to cone
- Bonding pole piece to magnet
- Bonding alnico magnet to base
- Rapid curing structural and electrical repair kit
- Rapid curing laminates and "gel" coats
- Potting electonic boards
- Encapsulating electrical and electronic components

Product Benefits

- Fast at room temperature (about 10 to 15 minutes)
- Low shrinkage
- 100% reactive, non-solvent system
- Easy mixing ratio of resin and hardener
- No fuming on gelation

Typical Properties (Uncured)

Property	Part A	Part B
Base	Ероху	Amine
Appearance	Clear	Amber-Yellow
Viscosity at 25°C, cP	11,000 to 15,000	6,000 to 8,000
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	15
Durometer Hardness, Shore D	75
Operating Temp., °C	-54 to 82

Typical Cured Performance

Room Temperature Cure

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

Cure Time at 22°C	Shear Strength
24 Hours	2400 psi
30 Days	2600 psi

Chemical/Solvent Resistance

Shear Strength on Aluminum lap-shear specimens tested according to ASTM D1002. Cured for 24 hours at 22°C. Immersed in Chemical/Solvent for 30 days at 22°C.

Chemical/Solvent	% Strength Retention
10 % Sodium Chloride	83
Distilled Water	81
5% Acetic Acid	79
Petrohol 99	100
Hydrocarbon Test Fluid	94
Ethylene Glycol	100
Hydraulic Oil	99

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[®] 315 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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