

Preliminary Tuffbond® 31516

Product Description

Hernon® Tuffbond® 31516 is a modified thixotropic epoxy adhesive that provides a fast room temperature cure. **Tuffbond® 31516** exhibits very good moisture chemical and heat resistance.

Tuffbond® 31516 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 pole piece to magnet
- Bonding alnico magnet to base
- Rapid curing structural and electrical repair kit
- Potting electronic boards
- Encapsulating electrical and electronic components

Product Benefits

- 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	Epoxy	Amine
Appearance	Clear	Yellow
Viscosity at 25°C, cP HBT, 10 rpm	83,520	95,680
Mix Ratio by Weight	1	1

Typical Properties (Cured)

Property	Value
Working Life at 22°C (20g), minutes	5-15
Durometer Hardness, Shore D	80-90

Typical Cured Performance

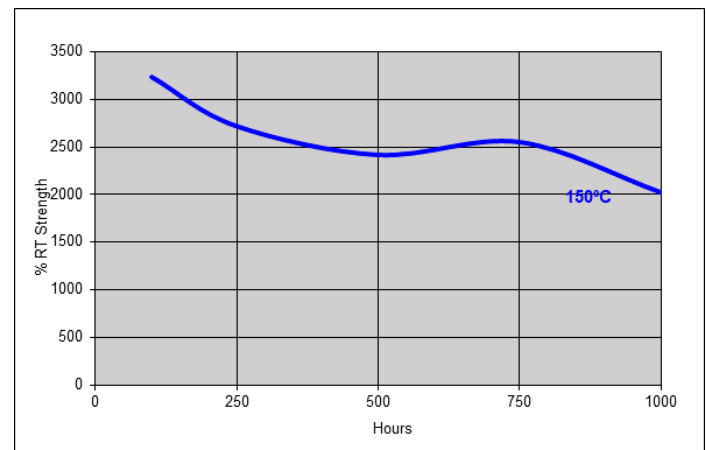
Shear Strength

Lap-shear specimens tested according to ASTM D1002.
Cured 24 Hours at 22°C

Substrates	Shear Strength (psi)
Grit-blasted Steel	2,578
Grit-blasted Stainless steel	888

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® 31516 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.

Hernon® Technical Data Sheet

Tuffbond® 31516

Dispensing Equipment

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

These suggestions and data are based on information we believe to be reliable and accurate, but no guarantee of their accuracy is made. HERNON MANUFACTURING®, INC. shall not be liable for any damage, loss or injury, direct or consequential arising out of the use or the inability to use the product. In every case, we urge and recommend that purchasers, before using any product in full scale production, make their own tests to determine whether the product is of satisfactory quality and suitability for their operations, and the user assumes all risk and liability whatsoever, in connection therewith. Hernon's Quality Management System for the design and manufacture of high-performance adhesives and sealants is registered to the ISO 9001 Quality Standard.