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HERNON.com

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TECHNICAL DATA SHEET

ISO-9001

Tuffbond[®] 304

Product Description

Hernon[®] Tuffbond[®] 304 is a modified epoxy adhesive that provides a very fast room temperature cure. Tuffbond[®] 304 exhibits very good moisture chemical and heat resistance. This very fast cure epoxy adhesive is specially formulated for rapid in-line assembly of loud speakers. Tuffbond[®] 304 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 electronic boards
- Encapsulating electrical and electronic components

Product Benefits

- Fast at room temperature (about 4 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	Black	Light Yellow
Viscosity at 25⁰C, cP	11,000 to 16,000	12,000 to 18,000
Mix Ratio by Weight	1	1
Specific Gravity	1.17	1.13

Typical Properties (Cured)

Property	Value
Working Life at 22ºC (20g), minutes	4 – 7 mins
Durometer Hardness, Shore D	80 - 90

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 (psi)
24 Hours	2000- 3500

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[®] **304** 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[®] 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.