

Technical Data Sheet Nuts N' Bolts® 97860

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Product Description

Hernon® Nuts N' Bolts® 97860 is a wicking anaerobic used for preassembled equipment and structures where penetration into fastener connection points is required. This product allows very simple preventive maintenance by permitting thread locking without dismantling equipment. The product "wicks" into voids by capillary action. Use **Nuts N' Bolts® 97860** to seal pores or pinhole porosity in welded seams, tanks, castings, or metal parts. The cured adhesive is a thermoset plastic suitable for temperatures up to 400°F (204°C), and exposure to most solvents.

Product Benefits

- Prevents loosening of threaded parts
- Prevents rusting of threads
- Seals against leakage
- Cures without cracking or shrinking
- Easily applied with **Hernon®** application equipment
- Low inventory-fits wide range of bolt sizes
- Single component-no mixing
- No curing outside of joint
- Can be applied after assembly

Typical Applications

- Air compressor fasteners
- Refrigeration safety valves, compressor coils
- Emission control valve screws
- Fasteners on equipment for shipment
- Calibration & adjustment screws
- Tamper proofing assemblies
- Bicycles, motorcycles
- Children's swings, toys
- Gun smiting

Performance Testing

Each batch of **Nuts N' Bolts® 97860** is tested to the detail requirements of ASTM D5363 (AN0261).

Typical Properties (Uncured)

Property	Value
Chemical Type	Methacrylate Ester
Appearance	Amber (Fluorescent)

Specific Gravity	1.06
Viscosity @ 25°C, cP	10 to 25
Flash Point	See SDS

Typical Properties (Cured)

Property	Value
Temperature Range, °F	-65 to 300
Set Time, Steel, minutes	<20

Typical Cured Performance

Cured and tested at 22°C on 3/8 x 16 grade 5 bolts and type 2 nuts according to ASTM D5363.

Cure	Substrate	Torque	N•m (in-lb)
24 Hours	Steel	Breakaway	2.3-11.3 (20-150)
		Prevailing	17-56.5 (150-500)
	Plated	Breakaway	1.1-22.6 (10 to 200)
		Prevailing	8.5-56.5 (75 to 500)

General Information

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

Where aqueous washing systems are used to clean the surfaces before bonding, it is important to check for compatibility of the washing solution with the adhesive. In some case, these aqueous washes can affect the cure and performance of the adhesive.

This product is not normally recommended for use on plastics (particularly thermoplastic materials where stress cracking of the plastic could result). It is recommended to confirm compatibility of the product with such substrates.

Directions for Use

For best performance surfaces should be clean and free of grease. **Nuts N' Bolts® 97860** should be applied to the bolt in sufficient quantity to fill all engaged threads.

Disassembly and Cleanup

To aid in disassembly anaerobic compounds can be weakened by heating to at least 500°F (260°C). Once disassembled, cured adhesive can be removed with **Hernon® Gasket Remover 30**.

Storage

Nuts N' Bolts® 97860 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 ISO9001 Quality Standard.