

## Cylinlock® 822

### Product Description

**Hernon® Cylinlock® 822** is a high performance, single component, 100% active anaerobic adhesive/sealant formulated for dependable bonding of fitted cylindrical parts.

**Cylinlock® 822** offers high strength as well as superior heat and chemical resistant bonding at room temperature.

**Cylinlock® 822** is formulated for applications, which require superior strength with temperature resistance up to 300°F (149°C).

### PRODUCT BENEFITS

- Increases reliability.
- Reduces coat.
- Cures at room temperature.
- Single component (no mixing).
- Allows relaxed tolerance.
- Prevents corrosion.
- Easily joins dissimilar materials
- Allows slip fits instead of press and interference fits.

### Typical Applications

- Retaining pins, sleeves, gears, wheels, rotors, pulleys, fan on shafts, etc.
- Retaining keys in worn keyways.
- Mounting of bearings, bushings, sleeves, and plugs in housing.

### Performance Testing

Each batch of **Cylinlock® 822** is tested to the lot requirements of MIL-R-46082B (Type I), and to the detail requirements of ASTM D5363 (AN0411).

### Typical Properties (Uncured)

Property	Value
Chemical Type	Dimethacrylate Ester
Appearance	Green fluorescent liquid
Specific Gravity	1.07
Viscosity @ 25°C, cP	100 to 125
Flash Point	See SDS
VOC Content (ASTM D2369)	2.63 lb/gal

### Typical Cured Performance

Compressive Shear Strength

Tested at RT, on steel pins and collars according to ASTM D4562.

Cure Conditions	Shear Strength, psi
24 Hours, RT	≥ 2000

### 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).**

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 results, clean all surfaces (external and internal) with a **Hernon®** cleaning solvent and allow to dry. If the material is an inactive metal or the cure speed is too slow, apply **Primer 49 or 50** and allow to dry.

**For Slip Fitted Assemblies**, apply adhesive around the leading edge of the pin and the inside of the collar and use a rotating motion during assembly to ensure good coverage.

**For Press Fitted Assemblies**, apply adhesive thoroughly to both bond surfaces and assemble at high pressure on rates.

**For Shrink Fitted Assemblies** the adhesive should be coated onto the pin, the collar should then be heated to create sufficient clearance for free assembly. Parts should not be disturbed until sufficient handling strength is achieved.

### **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 a solvent.

### **Storage**

**Cylinlock® 822** 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.