

## Cylinlock<sup>®</sup> 847

### Product Description

Hernon<sup>®</sup> Cylinlock<sup>®</sup> 847 is a high temperature, high strength anaerobic adhesive designed to retain and seal cylindrical assemblies. This compound will cure on metallic or non-metallic substrates and is suitable for exposure to most solvents.

### Typical Applications

- Heat exchanger tubes.
- Engine cylindrical liners
- Brazed or soldered joints

### Typical Properties (Uncured)

Property	Value
Resin	Dimethacrylate ester
Appearance	Clear- Light Amber
Viscosity @ 25°C, cP	380-600
Specific gravity	1.09
Flash point	See SDS
Fluorescence	Positive

### Typical Curing Performance

#### **Cure Speed vs. Temperature**

The rate of cure will depend on the ambient temperature. The graph shows the shear strength developed with time at different temperatures on steel pins and collars and tested according to ASTM D4562.

### Typical Cured Performance

#### Compressive Shear Strength

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

Cure Conditions	Shear Strength, N/mm <sup>2</sup> (psi)
24 hours at 22°C	≥ 13.8 (≥ 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 the compatibility of the product with such substrates.

#### **Directions for Use**

For best results, clean all surfaces (external and internal) with a **Hernon<sup>®</sup>** cleaning solvent and allow to dry. If the material is an inactive metal or the cure speed is to 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 press 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<sup>®</sup> 847** 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.

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