

## Technical Data Sheet Cylinlock<sup>®</sup> 843

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Page 1 of 2

### Product Description

**Hernon<sup>®</sup> Cylinlock<sup>®</sup> 843** is a fast curing, high strength anaerobic adhesive yielding higher shear strengths with temperature resistance up to 300°F (149°C). It provides relatively quick cures, outstanding solvent resistance, and improved reliability for metal service applications. Flexible and good for use on Brass.

Certified to NSF/ANSI Standard 61 for use in commercial and residential potable water systems

### Typical Applications

- Pipe fittings, threaded assemblies
- Bushings
- Pins, wheels, gears, pulleys

### Typical Properties (Uncured)

Property	Value
Chemical Type	Methacrylate Ester
Appearance	Green fluorescent liquid
Fluorescence	Positive
Specific Gravity	1.09
Viscosity @ 25°C, cP	2000 - 3400
Flash Point	See SDS

### Typical Properties (Cured)

Property	Value
Fixture time, Brass Nuts/Bolts	1 – 2 minutes
Fixture time, M10 Plated Steel Nuts/Bolts	20- 60 min

### Typical Cured Performance

#### Torque Strength

Cured and tested at 22°C.  
According to ASTM D5363.

Substrate	Torque	N•m (in-lb)
3/8 x 16 steel - grade 5 bolts and type 2 nuts	Breakaway	16.9-56.5 (150-500)
	Prevailing	16.9-39.5 (150-350)
3/8 x 16 brass bolts and nuts	Breakaway	≥11.3 ≥100
	Prevailing	≥22.6 ≥200

Cured and tested at 22°C.  
According to ISO 10964.

Substrate	Torque	N•m (in-lb)
M10 steel bolts and nuts	Breakaway	16.9-56.5 (150-500)
	Prevailing	16.9-39.5 (150-350)

#### Shear Strength

Cured 24 hours at 22°C. Grit blasted steel specimens.

Test Method	Property	Value (psi)
ASTM D1002	Shear Strength	≥ 2000

#### 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, RT	≥ 17.2 (≥ 2500)

#### Storage

**Cylinlock<sup>®</sup> 843** 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.

### 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).**

This product is not normally recommended for use on plastics. It is recommended to confirm compatibility of the product with such substrates.

#### Directions for Use

For best results, clean all surfaces with a **Hernon<sup>®</sup>** cleaning solvent Isopropyl Alcohol or acetone and allow to dry.

**For Threaded Assemblies** the adhesive should be applied to 2-5 threads and the nut screwed on over the adhesive. Allow sufficient time to cure (approx. 1 hr). Wipe off excess sealant after nut is applied.

**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 surfaces to be bonded and hold together with clamps.

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 **Hernon® Gasket Remover 30**.

#### **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.