

Technical Data Sheet Cylinlock[®] 846

April 2016

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Product Description

Hernon[®] Cylinlock[®] 846 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.

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

Typical Applications

- Keys in worn keyways
- Bushings
- Pins, wheels, gears, pulleys

Typical Properties (Uncured)

Property	Value
Chemical Type	Methacrylate Ester
Appearance	Green fluorescent liquid
Specific Gravity	1.09
Fluorescence	Positive
Viscosity @ 25°C, cP	1000 - 1500
Flash Point	See MSDS

Typical Properties (Cured)

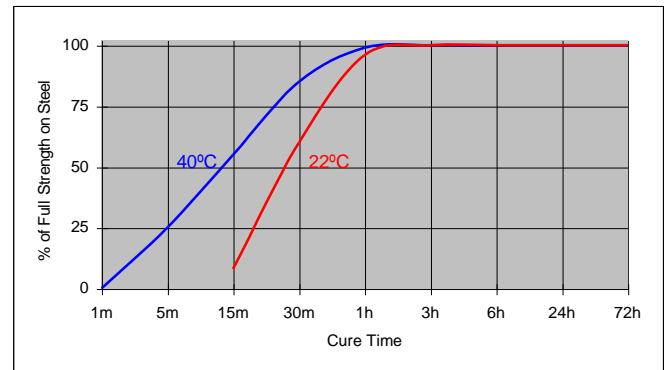
24 hr RT cure @ 22°C

Property	Value
Temperature Range	10 to 300°F
Fixture time, Brass Nuts/Bolts	1 – 2 minutes
Fixture time, Steel Nuts/Bolts	5 – 6 minutes
Shear Strength Steel Pin and Collars	≥ 2500 psi

Typical Curing Performance

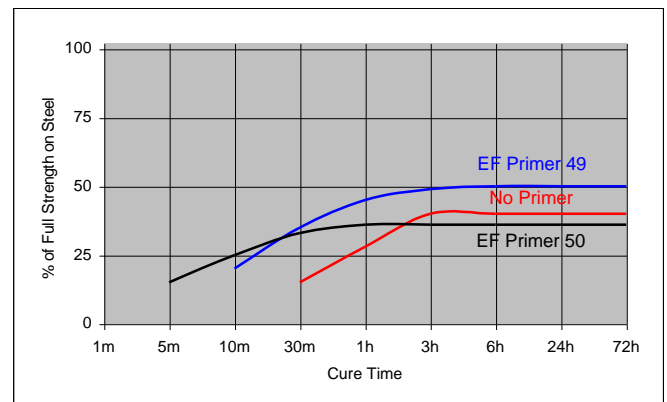
Cure Speed vs. Temperature

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 ISO 10123.



Cure Speed vs. Primer

When cure speed is unacceptably long (because of substrate, temperature or gap), performance may be improved by treating the surface with **Hernon[®] EF[®] Primer 49 or 50**. The graph below shows shear strength developed with time using **EF[®] Primer 49 and 50** on steel pins and collars and tested according to ISO 10123.



Typical Environmental Resistance

Chemical/Solvent Resistance

Aged under conditions indicated - Tested at 72°F (22°C)

Chemical/Solvent	Temp	% of Initial Strength	
	(°C)	100 h	500 h
Water Glycol 50/50	87	100	90
Brake fluid	22	80	75
Ethanol	22	95	95
Gasoline	22	100	100
Motor Oil	125	100	100
Acetone	22	80	80

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 Material Safety Data Sheet (MSDS).

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 cases 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 **EF® Activator 49 or 50** 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 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 **Hernon® Gasket Remover 30**.

Storage

Cylinlock® 846 should be stored in a cool, dry location in unopened containers at a temperature between 46°F to 82°F (8°C to 28°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 9001:2008 Quality Standard.