

## Technical Data Sheet Dripstop<sup>®</sup> 940

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### Product Description

Hernon<sup>®</sup> Dripstop<sup>®</sup> 940 is a high-speed thread sealant for use on inactive metals such as stainless steel and aluminum used in chemical process piping. The properties of this Dripstop prevents galling on Stainless Steel, Aluminum and other metal pipe fittings. Dripstop<sup>®</sup> 940 is formulated to cure without the necessity of a primer.

Dripstop<sup>®</sup> 940 has been shown to be compatible for use within diesel exhaust systems using DEF according to ISO-22241 through independent 3<sup>rd</sup> party verification.

Dripstop<sup>®</sup> 940 withstands high pressures, sealing up to 250psig steam at 400°F (204°C) continuous service while maintaining its chemical inertness.

### UL Classification – File MH14222

Classified by Underwriters Laboratories Inc.<sup>®</sup> for use in devices handling gasoline, petroleum oils, natural gas (pressure not to exceed 300 psig), butane and propane not exceeding 2 in. pipe size. 29R9.

Certified to NSF/ANSI Standard 61 for use in commercial and residential potable water systems not exceeding 82°C (180°F).

### Product Benefits

- Instant seal (moderate pressures)
- Seals against liquid and gas leaks
- Lubricates parts for easy assembly
- Prevents Galling on metal pipe threads and fittings
- Does not cure until joint is assembled
- Eliminates waste. No dripping or running
- Easy disassembly
- Single component
- Solventless, won't crack or shrink

### Typical Applications

- Plated flare fittings
- Pulp and paper mills
- Refinery piping
- Instrumentation fittings
- Waste treatment plants
- Textile equipment
- Utilities and Power generation

- Automotive

### Typical Properties (Uncured)

Property	Value
Chemical Type	Dimethacrylate Ester
Appearance	White Paste
Viscosity @ 25°C, cP	120,000-250,000
Specific Gravity	1.16
Flash Point	See MSDS

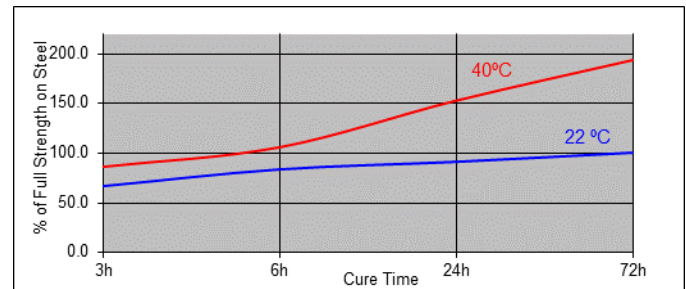
### Typical Properties (Cured)

Property	Value
Pressure Resistance, psi	10,000
Temperature Range, °C (°F)	-55 to 204 (-65 to 400)

### Typical Curing Performance

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

The graph below shows breakaway strength developed with time on 3/8 inch NPT steel pipe tees and plugs and tested according to ASTM D6396.



### Typical Cured Performance

Cured for 24 hours at 22°C.

Substrate	Strength, (in-lb)	
3/8 inch NPT steel pipe tees and plugs, ASTM D6396	Breakaway torque :	55 - 65
	Prevailing Torque :	180 - 240
3/8 x 24 Grade 2 Steel Nuts and Bolts, ISO 10964	Breakaway torque :	10 - 55
	Prevailing Torque :	5 - 25

## Typical Environmental Resistance

### Heat Aging

Cured for 72 hrs at 22°C.

Aged under conditions indicated, tested at 22°C, using 3/8 inch NPT steel pipe tees and plugs, according to ASTM D6396.

Conditions	Strength, (in-lb)	
168 hrs @ 200 °C	Breakaway torque :	≥ 250
	Prevailing Torque :	≥ 250

### Chemical/Solvent Resistance

Aged under conditions indicated, tested at 22°C.

Breakaway strength was measured with time on 3/8 inch NPT steel pipe tees and plugs and tested according to ASTM D6396.

Chemical/Solvent	°C	1000 Hours of Exposure	
		Strength, (in-lb)	Sealability
Diesel Exhaust Fluid	22	75 - 105	Pass
Motor oil	125	235 - 265	Pass
Brake Fluid	22	10 - 50	Pass
Water/glycol 50/50	87	310 - 340	Pass
Air	87	100 - 130	Pass
Air (reference)	22	295 - 325	Pass
DEF	22	75 - 105	Pass
Distilled Water	87	335 - 365	Pass

## General Information

**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 prior to use.

## Directions for use

### For Assembly

1. For best results, clean all surfaces (external and internal) with **Hernon® Cleaner 62** and allow to dry.
2. If a faster cure speed is desired, spray with **EF® Primer 49 or 50** and allow to dry.
3. Apply a 360° bead of product to the leading threads of the male pipe fitting, leaving the first thread free. Force the material into the threads to thoroughly fill the voids. For pipe sizes larger than 1 in fill the threads and voids on both the male and female ends.
4. Using accepted trade practices assemble and wrench tighten fittings until proper alignment is obtained.
5. Properly tightened fittings will seal instantly to moderate pressures. For maximum pressure resistance and solvent resistance allow the product to cure a minimum of 24 hours.

### For Disassembly

1. Remove with standard hand tools.
2. Where hand tools do not work because of excessive engagement length or large diameters (over 1"), apply localized heat to approximately 250°C. Disassemble while hot.
3. Once disassembled, cured adhesive can be removed with **Hernon® Chemical Stripper 30**.

### For Cleanup

1. Cured product can be removed with a combination of soaking in **Hernon® Cleaner 62** and mechanical abrasion such as a wire brush.

### Storage

**Dripstop® 940** should be stored in a cool, dry location in unopened containers at a temperature between 46°F to 85°F (8°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.