

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

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### Product Description

**Hernon<sup>®</sup> Dripstop<sup>®</sup> 940** is a general purpose anaerobic pipe sealant. It has superior sealing and mild locking performance compared to tapes and non-hardening dopes. **Dripstop<sup>®</sup> 940** reduces costs by eliminating leakage and increasing the assembly line speed.

**Dripstop<sup>®</sup> 940** seals to moderate pressure immediately and to 250 psig steam pressure in just 24 hours. This sealant also lubricates threads during make-up, prevents galling and assures smooth disassembly.

### UL Classification – File MH14222

Classified by Underwriters Laboratories Inc.<sup>®</sup> as to fire hazard only. 940 Pipe Sealant with Teflon<sup>®</sup>. Fire hazard is small. No flash point in liquid state. Ignition temperature 447°C (837°F). 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.

### Product Benefits

- Instant seal
- Seals against liquid and gas leaks
- Lubricates parts for easy assembly
- Does not cure until joint is assembled
- Eliminates waste. No dripping or running
- Easy disassembly
- Single component
- Solventless, won't crack or shrink due to solvent evaporation

### Typical Applications

- Hydraulic line fittings
- Pneumatic line fittings
- Fuel line fittings
- Fluid connections
- Steam lines up to 250 psig
- Pipe plugs

### Typical Properties (Uncured)

Property	Value
Chemical Type	Dimethacrylate Ester
Appearance	White Paste
Viscosity @ 25°C, cP	550,000
Specific Gravity	1.16
Flash Point	See MSDS

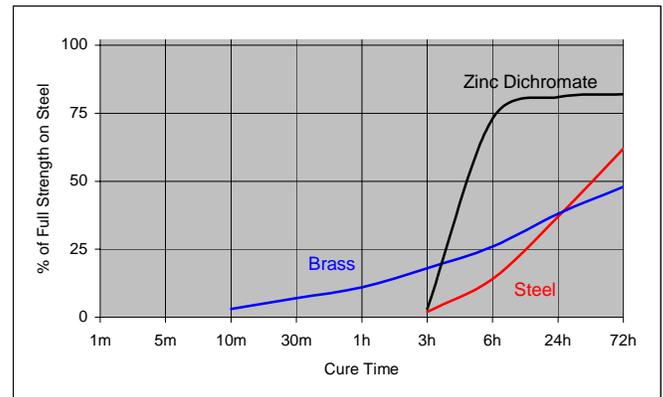
### Typical Properties (Cured)

Property	Value
Coefficient of thermal expansion, ASTM D696, K <sup>-1</sup>	80 × 10 <sup>-6</sup>
Coefficient of thermal conductivity, ASTM C177, W / m <sup>o</sup> K	0.1
Specific Heat, kJ/(kg·K)	0.3
Pressure Resistance, psi	10,000
Temperature Range, °C (°F)	-55 to 204 (-65 to 400)

### Typical Curing Performance

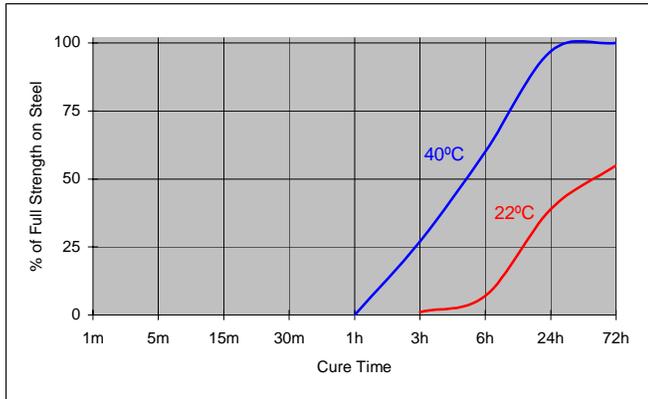
#### **Cure Speed vs. Substrate**

The rate of cure will depend on the substrate used. The graph below shows the breakaway strength developed with time on 3/8 inch NPT steel pipe tees and plugs compared to different materials and tested according to ASTM D6396.



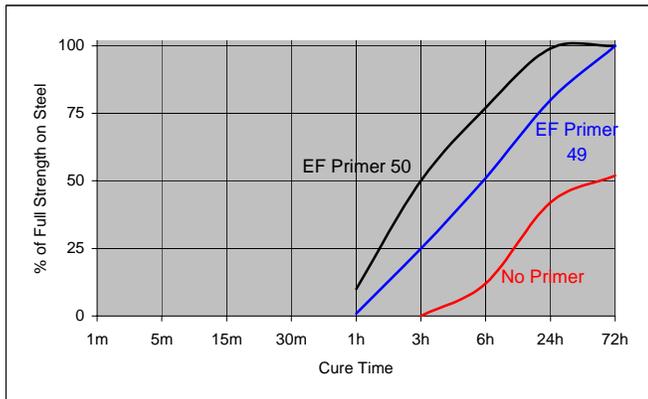
### Cure Speed vs. Temperature

The rate of cure will depend on the temperature. The graph below shows the breakaway strength developed with time at different temperatures on 3/8 inch NPT steel pipe tees and plugs and tested according to ASTM D6396.



### Cure Speed vs. Primer

Where cure speed is unacceptably long, or large gaps are present, applying primer to the surface will improve cure speed. The graph below shows breakaway strength developed with time using EF® Primer 49 and 50 on 3/8 inch NPT steel pipe tees and plugs and tested according to ASTM D6396.



### Typical Cured Performance

Breakaway Torque Strength, ISO 10964  
3/8 x 24 Grade 2 Steel Nuts and Bolts

Cure Conditions	Value, N•m (in-lb)
4 hours @ 22°C	> 0.34 (> 3)
24 hours @ 22°C	> 1.7 (> 15)

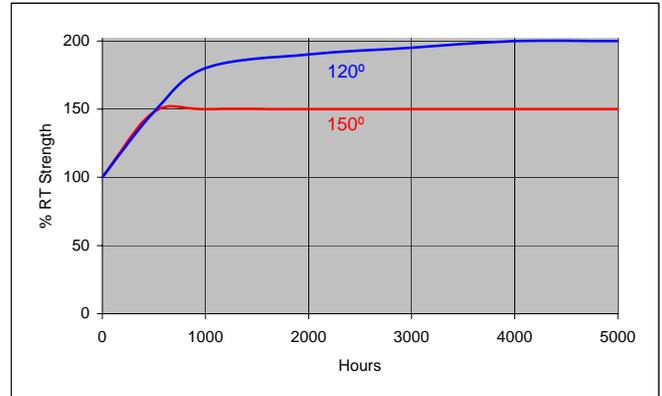
### Typical Environmental Resistance

Cured for 72 hours @ 22°C

Breakloose Torque, ISO 10964, Pre-torqued to 1.1 N•m:  
M10 steel fasteners (degreased)

### Heat Aging

Aged at temperature indicated and tested @ 22°C



### Chemical/Solvent Resistance

Aged under conditions indicated, tested at 22°C.

Chemical/Solvent	°C	% of Initial Strength		
		100 hr	500 hr	1000 hr
Motor oil	40	100	100	100
Unleaded Gasoline	22	90	80	80
Brake Fluid	22	90	90	80
Ethanol	22	85	85	85
Acetone	22	75	70	60
1,1,1 Trichloroethane	22	90	90	85
Water Glycol 50/50	87	100	75	75

### 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 cue 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 Assembly

1. For best results, clean all surfaces (external and internal) with **Hernon® Cleaner 62** and allow to dry.
2. If the material is an inactive metal or the cure speed is too slow, 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 fitting, leaving the first thread free. Force the material into the threads to thoroughly fill the voids. For bigger threads and voids, adjust product amount accordingly and apply a 360° bead of product on the female threads also.
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® Gasket Remover 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 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 ISO9001:2000 Quality Standard.