HERNON®
High Performance Adhesives and Sealants
ISO 9001 Registered

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Technical Data Sheet
Dripstop® 945

Product Description

Hernon® Dripstop® 945 is a high performance adhesive/sealant specifically formulated for the sealing and mild locking of hydraulic and pneumatic threaded parts used with hydraulic and pneumatic equipment. **Dripstop® 945** will seal pipe threads, standard nuts and bolts, fittings for hydraulic and pneumatic systems, air conditioners, fittings for refrigeration equipment, and all types of water and chemical processing valves and equipment, including steam up to 350ºF.

Dripstop® 945 is a single component, anaerobic adhesive/sealant, which will provide a rapid cure at room temperature. Upon cure, **Dripstop® 945** becomes a highly crosslinked thermoset plastic preventing leakage from shock, vibration as well as corrosive liquids and atmospheres.

Product Benefits

- Effectively seals a wide range of industrial fluids and gases.
- Does not shrink or crack due to solvent evaporation. (100% solid system)
- Ready to use, single component.
- Room temperature cure.
- **Dripstop® 945**, in a liquid state, completely disperses in most hydraulic fluids.

Typical Properties (Uncured)

Property	Value
Resin	Dimethacrylate ester
Appearance	Brown liquid
Viscosity @ 25ºC, cP	400 to 600
Specific gravity	1.19
Flash point	See MSDS

Typical Properties (Cured)

Property	Value
Coefficient of thermal expansion, ASTM D696, K^{-1}	0.10
Coefficient of thermal conductivity, ASTM C177, W / m°K	0.10
Specific Heat, kJ/(kg·K)	0.30

Typical Cured Performance

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

Cure Time at 22ºC	Torque	Value, N•m (in-lb)
1 Hour	Breakaway	≥ 1.1 (≥ 9)
	Prevail	≥ 0.6 (≥ 5)
24 Hours	Breakaway	≥ 2.8 (≥ 24)
	Prevail	≥ 1.1 (≥ 9)

Typical Environmental Resistance

Cured for 24 hours @ 22ºC
Breakaway Torque, ISO 10964:
3/8 x 24 Grade 2 Steel Nuts and Bolts

Chemical/Solvent Resistance
Aged 720 hours at conditions indicated, tested at 22ºC.

Chemical/Solvent	ºC	% of Initial Strength
Motor oil	87	100
Unleaded Gasoline	87	100
Phosphate Ester	87	100
Isopropanol	87	100
Air	87	100
Distilled Water	87	100
Automatic Transmission Fluid	87	100
Brake Fluid	87	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 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 250ºC. Disassemble while hot.

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® 945 should be stored in a cool, dry location in unopened containers at a temperature between 46ºF to 82ºF (8ºC to 28ºC) 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.