HERNON®
Formulating Solutions

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Dripstop® 923

Product Description

Hernon® Dripstop® 923 is a single component, paste-like anaerobic pipe sealant compound, which contains Teflon®. The product cures when confined in the absence of air between close fitting metal surfaces. This industrial grade sealant develops controlled low strength to facilitate disassembly.

Product Certification

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

Typical Applications

Dripstop® 923 is recommended for sealing metal tapered pipe threads and fittings up to 2 inches (5cm) NPT for industrial applications in the chemical processing, petroleum refining, pulp/paper, waste treatment, textile, utilities/power generation, marine, automotive, industrial equipment, gas compression and distribution industries. It is also recommended for industrial plant fluid power systems.

Typical Properties (Uncured)

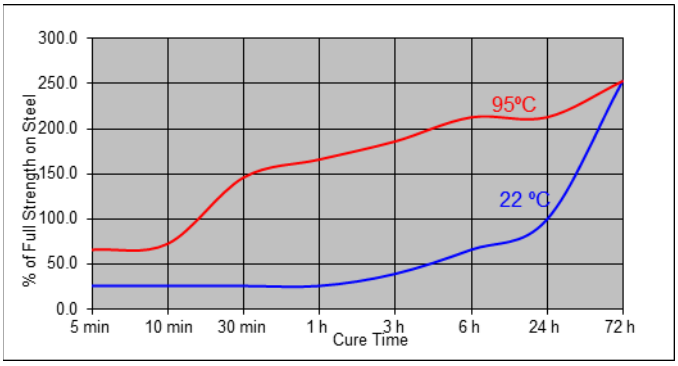
Property	Value
Resin	Methacrylate ester
Appearance	White paste
Viscosity @ 25ºC, cP	(1) 224,000 to 384,000
	(2) 56,000 to 96,000
Specific gravity	1.16

Typical Properties (Cured)

Property	Value
Pressure Resistance, psi	Up to 10,000
Temperature Range, ºC (ºF)	-55 to 150 (-65 to 300)

Typical Curing Performance

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



Typical Cured Performance

Breakaway Torque, ASTM D6396
3/8inch NPT steel pipe tees and plugs

Cure Condition	N•m (In-lb)
72 hours at 22ºC	≥ 5 (45)

Breakaway Torque, ISO 10964
3/8 x 24 steel nuts (grade 2) and bolts (grade 2)

Cure Condition	N•m (In-lb)
24 hours at 22ºC	2.8-6.8 (25-60)
24 hours at 93ºC	≥ 2.3 (150-250)

Shear Strength, ASTM D4562
Steel Pins and Collars

Cure Condition	Value (psi)
24 hours	500-900

Typical Environmental Resistance

Cured for 72 hours @ 22ºC
Breakloose Torque, ISO 10964, pre-torqued to 1.1 N•m
M10 steel nuts and bolts

Heat Aging
Aged at temperature indicated - Tested at (22ºC).

Conditions	Strength, (in-lb)	
1000 hours @ 120 ºC	Breakaway torque:	180-250
1000 hours @ 150 ºC	Breakaway torque:	80-140

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

Chemical/Solvent	ºC	Breakaway torque, in-lb
Motor oil	87	150 - 210
Unleaded Gasoline	22	40 - 100
Air	87	300 - 400
Distilled Water	87	50- 110
Automatic Transmission Fluid	87	250 – 350
Brake Fluid	87	80 - 130

Chemical/Solvent	ºC	Breakaway torque, in-lb	
		500hours	1000 hours
DEF	22	50 -110	70 - 130
Diesel Fuel	22	60 - 120	70 - 130
Ethanol Fuel	22	20 – 80	30 – 90

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).

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 case, 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

Assembly

- 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, spray all threads with **Hernon® Primer 49 or 50** and allow to dry.
- 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.
- Using accepted trade practices, assemble and wrench tighten fittings until proper alignment is obtained.
- 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.

Disassembly and Cleanup

- Remove with standard hand tools.
- In rare instances where hand tools do not work because of excessive engagement length, apply localized heat to nut or bolt to approximately 250 °C. Disassemble while hot.
- Once disassembled, cured adhesive can be removed with **Hernon® Gasket Remover 30**.

Storage
Dripstop® 923 should be stored in a cool, dry location in unopened containers at a temperature between 45ºF to 85ºF (7ºC to 29ºC) 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.