HERNON® ISO 9001:2000
High Performance Adhesives and Sealants

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Technical Data Sheet
Dripstop™ 947

Product Description

Hernon® Dripstop™ 947 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™ 947** 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™ 947 is a single component, thixotropic (non-migrating) anaerobic adhesive/sealant, which will provide a rapid cure at room temperature. Upon cure, **Dripstop™ 947** 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.
- In the liquid state, completely disperses in most hydraulic fluids.

Typical Properties (Uncured)

Property	Value
Resin	Dimethacrylate ester
Appearance	Brown liquid
Viscosity @ 25ºC, cP	12,000 to 16,000
Specific gravity	1.20
Flash point	See MSDS

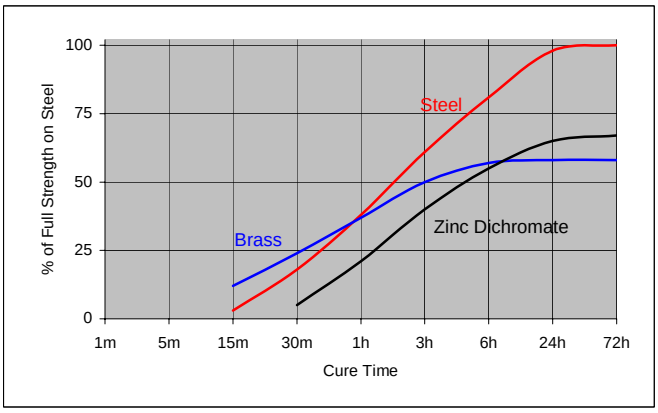
Typical Properties (Cured)

Property	Value
Coefficient of thermal expansion, ASTM D696, K^{-1}	80×10^{-6}
Coefficient of thermal conductivity, ASTM C177, W / m^{o}K	0.1
Specific Heat, kJ/(kg·K)	0.3
Pressure Resistance, psi	10,000
Temperature Range, ºC (ºF)	-55 to 150 (-65 to 300)

Typical Curing Performance

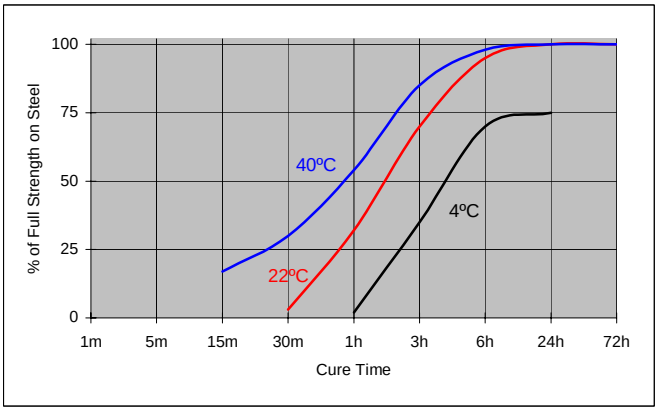
Cure Speed vs. Substrate

The rate of cure will depend on substrate used. The graph below shows the breakaway strength developed with time on M10 steel nuts and bolts compared to different materials and tested according to ISO 10964.



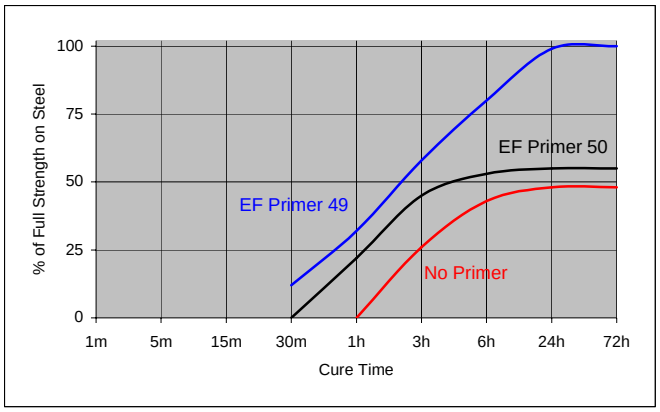
Cure Speed vs. Temperature

The rate of cure will depend on the ambient temperature. The graph shows the breakaway strength developed with time at different temperatures on M10 black oxide nuts and bolts and tested according to ISO 10964.



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 breakaway strength developed with time using **EF® Primer 49 and 50** on M10 zinc dichromate steel nuts and bolts and tested according to ISO 10964.



Typical Cured Performance

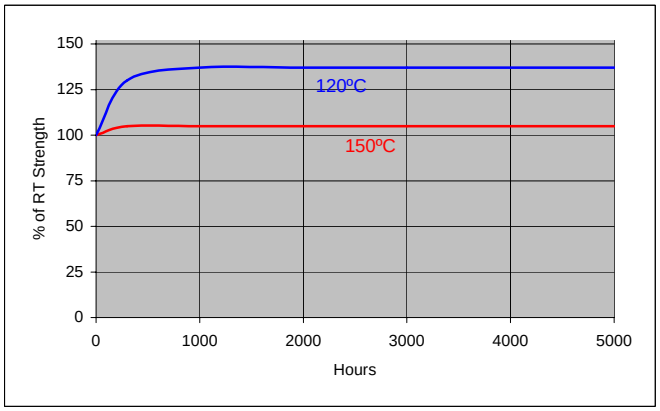
Cured 24 hours at 22ºC

Test	Test Specimen	Value
Breakaway Torque N•m (In-lb) ISO 10964	M10 Steel nuts and bolts	2.3 (20)
Shear Strength N/mm² (psi) ISO10123	Steel Pins and Collars	≥1.52 (220)

Typical Environmental Resistance

Cured for 1 week @ 22ºC
Breakloose Torque, ISO 10964, pretorqued to 5 N•m
M10 zinc phosphate steel nuts and bolts

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



Chemical/Solvent Resistance
Aged under conditions indicated and tested at 22ºC.

Chemical/Solvent	Temp (ºC)	% of Initial Strength 100 hr	500 hr	1000 hr
Water Glycol 50/50	87	100	100	100
Brake fluid	22	100	100	100
Ethanol	22	100	90	90
Unleaded Gasoline	22	100	100	95
Acetone	22	100	95	95
Motor Oil	125	100	100	100

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.

Storage
Dripstop™ 947 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.