

Technical Data Sheet Dripstop[®] 943

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Product Description

Hernon[®] Dripstop[®] 943 is an adhesive/sealant specifically formulated for the sealing and mild locking of Hydraulic and Pneumatic threaded parts.

Dripstop[®] 943 will positively 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 300°F.

Dripstop[®] 943 is a single component anaerobic adhesive/sealant. This adhesive will provide a rapid cure at room temperature. Upon cure, the material becomes a highly crosslinked thermoset plastic which will prevent leakage from shock, and vibration, as well as corrosive liquids and atmospheres.

Product Benefits

- Seals effectively 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.

Performance Testing

Each batch of **Dripstop[®] 943** is tested to the lot requirements of MIL-S-22473E (Grade JV), and to the detail requirements of ASTM D5363 (AN0171).

Typical Properties (Uncured)

| Property | Value |
|----------------------|---------------------------|
| Resin | Dimethacrylate ester |
| Appearance | Yellow fluorescent liquid |
| Viscosity @ 25°C, cP | 100 to 250 |
| Specific gravity | 1.14 |
| Flash point | See MSDS |

Typical Properties (Cured)

| Property | Value |
|--|-------------------------|
| Coefficient of thermal expansion, ASTM D696, K ⁻¹ | 0.1 |
| Coefficient of thermal conductivity, ASTM C177, W / m ² K | 0.1 |
| Specific Heat, kJ/(kg·K) | 0.3 |
| Temperature Range, °C (°F) | -55 to 150 (-65 to 300) |

Typical Performance Properties

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

| Cure Time at 22°C | Prevailing Torque N•m (in-lb) |
|-------------------|-------------------------------|
| 6 Hours | ≥ 0.45 (4) |
| 24 Hours | 0.8 to 1.5 (7-13) |

Typical Environmental Resistance

Solvent Resistance

0.50 in. iron pipe fittings sealed with **Dripstop[®] 943** were immersed in the following fluids for two weeks at 188°F and then pressurized to 300 psi hydrostatic pressure. The table below demonstrates the pressure retention.

| Chemical/Solvent | Pressure Retention, % |
|----------------------|-----------------------|
| Distilled Water | 100 |
| 50% glycol and water | 100 |
| Trichloroethylene | 100 |
| Motor oil | 100 |
| Jet Fuel (JP-5) | 100 |
| Gasoline | 100 |
| Skydrol 500 | 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 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.

Storage

Dripstop® 943 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 ISO 9001 Quality Standard.