

Technical Data Sheet Self Sealer 617

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Product Description

Hernon[®] Self Sealer 617 is a high temperature, pre-applied, non-hardening thread sealant that provides an instant seal on different pipe threads. **Self Sealer 617** is a resilient, tight clinging, non-curing sealant for tapered or straight threads.

Self Sealer 617 is water based, non-toxic, and can be applied easily without special handling precautions. **Self Sealer 617** is resistant to vibration loosening because of its prevailing torque characteristics. **Self Sealer 617** is also effective on non-locking applications.

Product Benefits

- Seals pipe threads for immediate use.
- The pre-applied coating eliminates liquid and post migration problems and concern during installation.
- The pre-applied coating is tough, resilient and resists shredding and peeling during assembly.
- Locks straight threads by resisting thread movement.
- Can be easily seen and inspected.
- Does not contaminate from shredding and washout.
- Provides lubrication for assembly.
- Seals against leakage of automotive lubricants, fuels and coolants up to 300°F/150°C with intermittent use to 350°F/177°C

Typical Applications

- Rear axle filler plugs
- Pressure gauges & sensors
- Screws for plastic assembly
- Water sprinkler fittings
- Bearing adjuster nuts
- Shower head fittings
- Adjustment screws
- Pipe fittings
- Compressor pipe
- Cable connectors
- Brake fittings

Typical Properties

Property	Value
Chemical Type	Modified acrylic
Appearance	White liquid
Viscosity @ 25°C, cP	800
Operating Temperature	-55 to 150°C (-65 to 300°F) intermittent to 177°C (350°F)
On Part Life	4 years
Specific gravity	1.22
Flash point	Aqueous

Coating Characteristics

Self Sealer 617 is compounded for softness and to provide good cold flow sealing properties. This prevents galling and allows a resilient coating for ease of installation onto aluminum and other soft metals, plastics, etc.

Lubricity

Self Sealer 617 is designed to give consistent control of lubricity. **Self Sealer 617** may affect the K - value and when precise results are necessary, the user should first test the actual coated parts.

Typical Performance

Heat Resistance

3/8" malleable iron National Pipe Thread (NPT) fittings coated with **Self Sealer 617** were exposed to 302°F/150°C for 30 days and to 351°F/177°C for 10 days. After the heat aging period, the assemblies were pressure tested for fluid leaks. Test assemblies passed 1035 kPa for one minute.

Chemical/Solvent Resistance

3/8" malleable iron National Pipe Threads (NPT) fittings coated with **Self Sealer 617** were immersed in the automotive test fluids listed below at the specified temperature for 30 days. After the aging period, the assemblies were tested for fluid leaks. Assemblies passed 1035 kPa for one minute.

Chemical/Solvent

Engine Oil
Automatic Transmission Fluid
50/50 Ethylene Glycol/Water
Water
Brake Fluid
Gasoline
Diesel Fuel #2

Temperature

302°F/150°C
302°F/150°C
248°F/120°C
212°F/100°C
302°F/150°C
77°F/25°C
77°F/25°C

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).

Directions For Use

Application

Self Sealer 617 can be applied from the bottle directly to pipe threads or from semi-automatic or automatic applicators. The parts to be coated have to be clean, dry and free from any surface contamination. The quantity to be applied on the threads depends on the surface area of the parts to be coated. The table below shows approximate amounts of **Self Sealer 617** required for various pipe sizes. Properly coated parts should merely be moistened with a thin film of **Self Sealer 617**.

Usage Chart for Self Sealer 617

Pipe Size, in.	Coating Width, in.	ml/1000 Parts
1/16	5/16	30
1/8	3/8	50
1/4	7/16	112
3/8	1/2	155
1/2	9/16	285
3/4	5/8	400
1	3/4	725
1 1/4	13/16	980
1 1/2	7/8	1150
2	1 1/16	1525
2 1/2	1 1/8	3225
3	1 3/16	4000

Drying Requirements

Thin film coating requires 10 to 30 minutes @ 155°F with an airflow of not less than 60 cubic feet per minute.

Storage

Self Sealer 617 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.