

Technical Data Sheet Silastomer[®] 333

September 2019

Page 1 of 2

Product Description

Hernon[®] Silastomer[®] 333 is a high performance, single component, ready to use adhesive / sealant. It has a paste-like consistency, which cures to a tough, resilient and durable silicone rubber when exposed to moisture in the air. Since it will not flow of its own weight, **Silastomer[®] 333** can be applied to vertical, horizontal and overhead joints without sagging or running off. It will adhere to clean metals, glass, most types of wood, silicone resin, vulcanized silicone rubber, natural and synthetic fiber, ceramic, many plastics and painted surfaces.

Silastomer[®] 333 provides excellent resistance to moisture, weathering, vibration, ozone and extreme temperatures. It can be applied in surface temperatures of 0°F to above 120°F with no loss in performance. Fully cured **Silastomer[®] 333** can withstand extended periods at temperatures up to 400°F.

Product Benefits

- One component – no mixing
- Room temperature cure
- Non-sagging for use on horizontal, vertical or overhead surfaces
- Excellent high and low temperature resistance
- Excellent weatherability
- Versatile electrical insulation
- Cured rubber is non-toxic
- Good solvent resistance

Typical Properties (Uncured)

Property	Value
Base	Acetoxy Polysiloxane
Color	Clear
Viscosity	Thixotropic Paste
Specific Gravity	1.007
Extrusion Rate, 0.125 in. Orifice, 50 psi air pressure	250-500 g/min
Sag or slump on 0.125 by 4 in. bead	Nil
Application Temperature	0°F to +120°F
Flash Point	See SDS

Typical Properties (Cured)

Physical Properties

Property	Value
Hardness, Shore A	18-30
Elongation, % ASTM D412	≥ 350
Modulus @ 100% Elongation ASTM D412	60-80 psi
Tack Free Time at 77°F, minutes	≤ 30
Tensile Strength at break ASTM D142, psi	≥ 175
Peel Strength, Aluminum/ Stainless Steel, ppi	≥ 15
Full Cure at 77°F, 0.25 in. bead, hours	24
Shrinkage, %	≤ 5
Temperature Range, °F	-70 to 400

Electrical Properties

Property	Value
Dielectric Strength, KV/mm ASTM D149	≥ 25
Dielectric Constant @ 50 Hz ASTM D150 1 kHz 1 MHz	2.7 2.7 2.7
Dissipation Factor @ 50 Hz ASTM D150 1 kHz 1 MHz	0.0010 0.0008 0.0002
Volume Resistivity (Ω·cm), ASTM D257	6 x 10 ¹⁴
Surface Resistivity (Ω), ASTM D257	6 x 10 ¹⁶

Typical Environmental Resistance

Silastomer[®] 333 exhibits excellent performance where a long term, permanently flexible bond is required.

Surface Preparation

All surfaces should be clean and dry. It is recommended that surfaces to be bonded be solvent wiped with acetone or mineral spirits. Do not use alcohol. Allow surface to dry thoroughly before applying sealant.

Approvals

When fully cured, **Silastomer[®] 333** meets requirements:

Certified to **NSF/ANSI Standard 51** Food Equipment Materials

Mil Spec MIL-A-46106B Type I

FDA compliant with Regulation 21 CFR 177.2600 where incidental or indirect food contact may be involved.

Directions for Use

- Ready to use. Requires no mixing or additives.

- Moisture curing begins immediately after the product is exposed to air, therefore assemble parts within a few minutes after the product is dispensed.
- Releases small amount of acetic acid during cure. Use adequate ventilation with extensive use of sealant.

Clean up

Excess uncured sealant can be removed from surfaces and tools with Mineral Spirits. Cured Sealant can be cut or scraped away.

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).

Storage

Silastomer® 333 should be stored in a cool, dry location in unopened containers at a temperature between 45°F to 85°F (7°C to 29°C) unless otherwise labeled. 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.