

Technical Data Sheet UV FOG 41764A

September 2019

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Product Description

Hernon[®] UV FOG (Form on Gasket) 41764A is an EB/UV curable product that provides excellent adhesion to shaft seals, oil seals, metals, glass, ceramics and plastics. Can be used as a Form-in-place gasket in oil and coolant systems. Typical applications include Engine covers, Oil pans and other fluid seal systems.

Typical Properties (Uncured)

Property	Value
Appearance	Amber
Viscosity @ 25°C, cP	700 to 900
Refractive Index	1.485
Specific Gravity	1.02
Flash Point	See SDS

Typical Properties (Cured)

Property	Value
Hardness, Shore A	10 to 25
Temperature Range, °F (°C)	-40 to 302 (-40 to 150)
Gap fill	0.1 up to 1.0 mm

Typical Curing Performance

Tack Free Time

Measured @ 365 nm, using medium pressure, mercury arc lamp: US 1000, at ½ inch distance: ≤ 5 seconds
LED9, at ¼ inch distance: ≤ 12 seconds

Typical Cured Performance

Block- Shear Strength on different specimens
Cured with US 1000, at ½ inch distance
Tested at RT, according to ASTM D4501

Specimen	Cure Conditions	Value, psi
Glass to Glass	UV-cured for 30 sec and post-cured for 24 hours at RT	≥ 100
Glass to Steel	UV-cured for 30 sec and post-cured for 24 hours at RT	≥ 100

Fluid Compatibility

Cured Material aged under condition indicated

Fluids	Temp (°C)	% Pliability after		
		72 h	500 h	1000 h

Dextron III / VI ATF	150	100	100	90
CVT Fluid	150	100	100	90
Motor Oil	120	100	100	100
Synthetic Motor Oil	120	100	100	100
Gear Oil	120	100	100	100
Pentosin FFL-4	120	100	100	100

Storage

UV Fog 41764A can be stored in a dry location in unopened containers at a temperature between 60°F to 90°F (15°C to 32°C) unless otherwise labeled. Material must be mixed and heated to 80 – 90 °F (26 – 32°C) prior to use. Avoid direct exposure to sunlight or fluorescent lighting. To prevent contamination of unused material, do not return any material to its original container.

Cured Seals-Shelf life

Seals can be stored for a minimum of 3 years at Room Temperature.

Cleanup

Uncured **UV Fog 41764A** should be cleaned up with absorbent material and placed in a closed container for disposal. Small areas can be cleaned up by curing the product prior to disposal by exposing the product to UV cure, light or sunlight. Afterwards the area can be washed with soap and water.

Dispensing Equipment

Hernon[®] offers a complete line of semi and fully automated dispensing equipment. Contact **Hernon[®] Sales** for additional information.

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).

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.