

**HERNON**<sup>®</sup>  
*Formulating Solutions*

# PRODUCT GUIDE

»» HIGH PERFORMANCE ADHESIVES & SEALANTS ««

»» PRECISION APPLICATION EQUIPMENT ««

»» CUSTOM ADHESIVE & APPLICATION SOLUTIONS ««

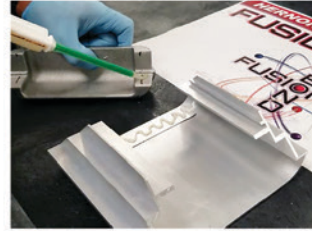


# ADHESIVES

## **Fusionbond®:** Two Component Structural Adhesives

Fusionbond® is a family of two-component, modified methacrylate structural adhesives designed for bonding a variety of substrates with minimal surface preparation. At over 50 joules, Fusionbond® offers the highest impact resistant bonds available today. Superior fatigue, chemical & environmental resistance.

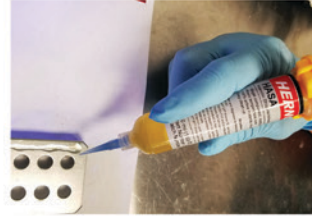
*Uses: Structural Bonding, Transportation, Marine, Heavy Equipment, Appliances and more.*



## **Heron Anaerobic Structural Adhesives (HASA)**

HASA® are highly engineered to combine tensile and peel strengths with excellent impact and temperature resistance for specific assembly requirements. Cured HASA adhesives are highly cross-linked structural thermoset plastics with excellent properties over a broad range of conditions.

*Uses: Speaker Magnets, Motor Magnets, Bonding Glass & Ceramics, Electronic Components In Severe Environments, Assembling Fuel Pumps, etc.*



## **ReACT®:** Two Component Structural Adhesives

Heron's ReACT® family of structural adhesives provide excellent adhesion to a wide variety of surfaces, good gap filling properties, consistent bond strength and excellent impact, shock and temperature resistance. ReACT® adhesives feature the speed, versatility and incredible shear strength of acrylic adhesives and offer high peel and flexure strength in a convenient, two-component, no-mix system.

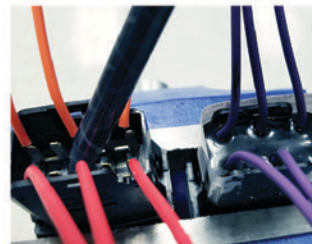
*Uses: Magnet Bonding, Bonding Pre-Coated Sheet Metal, Bonding Special Surface Metals and more.*



## **Tuffbond®:** Single Component & Two Part Epoxies

Tuffbond® epoxies give superior strength, moisture, chemical and heat resistance. Curing mechanisms include two-component chemically reactive curing and single-component heat curing. By changing the ratio of resin and hardener the cured adhesive can be adjusted to be tough but flexible or hard and rigid.

*Uses: Marine Coatings, Tank Lining, Encapsulating Electrical Components, Bonds Metals, Glass, Wood, Concrete and Rubber, Glass Reinforcement Resin, Underwater Coatings, Potting (clear & opaque), etc.*



## **Instantbond® and Quantum®:** Rapid Curing Cyanoacrylate Adhesives

Instantbond® and Quantum® are families of cyanoacrylate adhesives that provide instant bonding on a wide variety of surfaces. Heron offers classic ethyl and methyl formulas along with special toughened/flexible, surface insensitive, low-odor (low-blooming) and oil tolerant formulations. Viscosities for both range from very low to gel consistency and provide outstanding chemical and thermal resistance.

*Uses: Bonding Speaker Components, Wiper Blades, Rubber Bumpers, Thermoplastics, Elastomers, Leather, Ceramics, Metal Substrates and many more.*



## **Supertacker®:** Single Component, Elastomeric Adhesives

Supertacker® is a family of single component, high performance elastomeric adhesives that exhibit exceptional bonding characteristics to a broad range of materials and outperforms silicones, acrylics and rubber cement because they bond to more surfaces with greater strength and durability.

*Uses: Bonding A Broad Range Of Materials Including Metals, Glass, Plastic Composites, Rubber, Leather, Wood, Vinyl and more.*



## **Cylinlock®:** Anaerobic Retaining Compounds

Cylinlock® anaerobic adhesives are designed to seal and bond metal cylindrical components and assemblies. Cylinlock® adhesives are used to maximize integrity on new assemblies or to repair worn shafts and bearings. They cure in the absence of air between mated cylindrical surfaces and provide up to 5000psi of shear strength.

*Uses: Mounting of Bearings, Bushings, Sleeves and Plugs in Housings, Retaining Pins, Gears, Wheels, Rotors, Pulleys, Fans on Shafts, etc.*



# SEALANTS

## **Nuts N' Bolts®:** Anaerobic Threadlockers

Nuts N' Bolts® are single-component, 100% active adhesives that cure when air is omitted between the mating surfaces of a nut & bolt. Nuts N' Bolts® replace expensive locking methods such as lock and split washers while improving the reliability of threaded fasteners. These threadlockers lock, seal and prevent corrosion of threaded assemblies, cure without cracking or shrinking and are available in low, medium or high strength locking formulas.

*Uses: Locking Motor Housing Studs, Automotive Suspension Bolts, Railroad Assemblies, etc.*



## **Dripstop®:** Anaerobic Pipe Sealant

Dripstop® pipe sealants replace expensive, hard-to-use Teflon® tape to seal threaded components and provide an instant seal which then hardens to secure assemblies. Dripstop® formulations are single-component, 100% active sealants that cure when air is omitted between the mating surfaces of threaded pipe fittings. Unlike Teflon® tape, excess Dripstop® dissolves to eliminate damage to hydraulic system components while the sealant applied to the threads cures to provide a chemical and temperature resistant seal.

*Uses: DEF Systems, Fuel Line Fittings, Hydraulic Line Fittings, Fluid Connections, Steam Lines, etc.*



## **Powerseal®:** Non-Hardening, Instant Seal Pipe Sealant

Powerseal® is a single-component, non-hardening, non-toxic, non-curing gray paste pipe sealant which lubricates and seals threaded pipe connections and O-rings. Powerseal® is unaffected by oil, water, ammonia, glycerin, steam and many types of gases, exhaust fumes and hard-to-hold liquids. Powerseal® withstands extreme temperatures and will not shred, shrink, crack or crumble. The product also remains pliable and prevents galling, corrosion and seizing of metal parts.

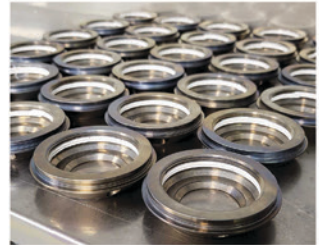
*Uses: Seals and Lubricates Plastic and Metal Fittings, Seals Flanges, Lubricates O-rings, etc.*



## **SelfSealer®:** Pre-Applied Thread Sealant

SelfSealer® are pre-applied, non-hardening thread sealants that provide instant seals on different pipe threads and can be reused multiple times without recoating. SelfSealers are water based, non-toxic and be applied without special precautions. Excellent resistance to vibrational loosening, inhibits corrosion between mating threads and resists shredding and peeling during assembly.

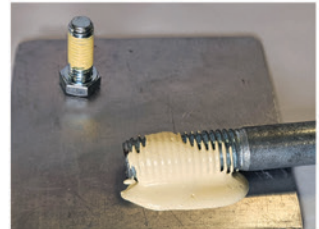
*Uses: Compressor Pipe Plugs, Plumbing Parts, Pipe Fittings, Shower Heads, Pressure Gauges, Overhead Fire Sprinklers, Valves, Brake Fittings and more.*



## **Self Locker®:** Pre-Applied Thread Locker

Self Locker® is a pre-applied, micro-encapsulated adhesive for threaded fasteners. Self Locker® stays dry to the touch until the shearing action of thread engagement causes the capsules to break and release the activator which allows the adhesive to cure. Self Locker® locks and seals against vibrational loosening and fluid leakage.

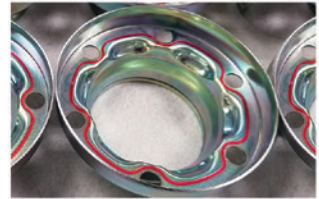
*Uses: Head Bolts, Truck Axle Bolts, Transmission Nuts, Pipe Plugs and Fittings, etc.*



## **Gasket Replacer®:** Anaerobic Gasketing Compound

Gasket Replacers are single component, room temperature curing, gel-like anaerobic gasketing compounds formulated to provide solvent and temperature resistant gaskets. Able to seal damaged surfaces instantly, Gasket Replacers replace costly and insufficient paper or cork gaskets, provide superior metal-to-metal sealing and offer excellent chemical and vibration resistance. These products can even be used on vertical surfaces since they do not migrate or drip.

*Uses: Cover Housings on Gear Reducers, Pipe Flanges, Truck and Tractor Transmissions, etc.*



## **Silastomer®:** Silicone Adhesives

Silastomer® are high performance, single component, silicone materials which cure into strong, durable and flexible rubber. Silastomer® products offer excellent resistance to moisture, extreme temperatures and vibration. Various Silastomer® formulas include an acetoxy cure for general purpose usage and/or oxime cure for electrical and electronic components.

*Uses: Waterproofing Electronics, Engine Components, Versatile Electrical Insulation and many more.*

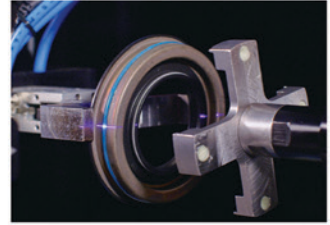


# SPECIALTY PRODUCTS

## **UV FORM-ON-GASKET (FOG):** Cure-In-Place (CIP) Gasket

Hernon's UV curable gasketing resin forms a soft, flexible gasket in any size or shape. Entire gasket and O-ring inventories can now be replaced with one simple bottle. The resin cures within seconds of exposure to UV light and has excellent adhesion to metals, glass, ceramics and plastics. Seals can be stored for years at room temperature. Water and chemical resistant formulas are available.

*Uses: Engine Covers, Oil Pans and Other Fluid Seal Systems, etc.*



## **Ammunition Sealants**

Hernon® is widely regarded as the World Leader In Ammunition Sealant Technology with nearly four decades of experience in developing high performance sealants for all sizes and types of ammunition including handgun and rifle cartridges, blank ammunition, shotgun shells, grenades and even mortar rounds and missiles. Hernon has revolutionized the ammo sealing process by moving from the old and messy batch process using asphalt to a much cleaner, continuous process where sealants are cured in a matter of seconds with powerful UV lights. From the largest ammo manufacturers in the world to hobbyists and home loaders, rounds sealed by Hernon have extreme water, environmental, solvent and heat resistance.



## **Hernon Porosity Sealants (HPS):** Impregnation Resins

HPS are impregnation resins designed to improve component density, machinability and surface quality for painting, plating and improved leak resistance. Microscopic voids in parts are filled by the low viscosity resin and sealed permanently. The parts leave the impregnation process without surface residue and can be used immediately.

HPS offers superior stability and predictability during the impregnation process when compared to older sealing materials like sodium silicate. Complete sealing without any limitations is the norm.

*Uses: Engine Blocks, Wire Harnesses, Castings, Water & Fuel Pumps, Carburetors, Brake Parts, Powdered Metal Parts, Valves, Manifolds, Plastic Molds, Regulators, Compressor Parts, etc.*



Engine Block

## **Dissipator®:** Thermally Conductive Adhesives

Dissipators are thermally conductive, room temperature curing adhesives that are designed for bonding electrical components to heat sinks with controlled gaps. Through a special shimming property, Dissipators insulate the component electrically while allowing thermal conductivity. This special feature produces a constant gap of 0.005" to 0.006" between components.

*Uses: Bonding Electrical Components to Heat Sinks*



## **Ultrabond®:** UV Curable Adhesives

Ultrabond® adhesives remain uncured until exposed to ultraviolet light. Hernon offers a broad range of Ultrabond® adhesives to meet many production demands including bonding glass to glass, glass to metal, bonding most plastics, wire tacking, potting and bonding rigid or flexible PVC to polycarbonates.

*Uses: Coating and Encapsulating Electronic Components, Shallow Potting Applications, etc.*



Glass-To-Glass Bonded  
With Ultrabond®

## **Accelerators, Activators, Primers & Cleaners**

Hernon offers an extensive line of surface preparation products. Accelerators and Activators greatly reduce the fixture times of cyanoacrylate adhesives. Primers offset low temperatures during applications and generally hasten the cure speed of anaerobic adhesives. Cleaners are used to clean and degrease parts, clean dispensing equipment and dissolve cured adhesives as needed.



# EQUIPMENT

## Precision Dispensing Equipment

Hernon offers a complete line of programmable Autobonder® and Autosealer® machines designed to dispense both liquid and/or paste materials. Hernon dispensing systems range from benchtop, semi-automatic, low production volume dispenser to high-output, fully automated stand alone dispensers designed for integration into turnkey assembly systems.



## Sureshot® Dispensing Valves

Sureshot® dispensing valves are designed to precisely dispense any liquid. Sureshot® valves feature snuff-back technology to prevent stringing of material and utilize a normally closed design to prevent material from being dispensed if air pressure is inconsistent. Hernon also offers positive displacement and diaphragm valves.



## RotoCoater Dispenser

The RotoCoater is a non-contact dispensing unit designed to apply sealants or adhesives to a recessed area. The customizable RotoCoater dispenser can be used as part of a stock dispensing system for single bore applications or as part of a multi-tasking dispensing solution to apply materials to multiple bores simultaneously.



## UV LED Curing Equipment

Hernon provides a range of ultraviolet (UV) LED curing equipment including bench-lamps, conveyor systems and spot-cure systems. Each UV light is designed to emit maximum energy at the activation frequency of Hernon's UV curable adhesives and sealants. Hernon's UV curing equipment is state-of-the-art and offers fast curing times with maximum energy efficiency.



## Custom Dispensing Systems

Hernon designs, builds, installs and provides on-going technical support for all of our custom dispensing and sealing systems. Hernon's custom systems are capable of parts loading, dispensing, curing, vision inspection and bad part rejection for countless applications and industries.

## Hernon® Certified Integrator Program

Hernon now offers a Certified Integrated designation to companies who have demonstrated a level of expertise in integrating Hernon valves and/or components in to their existing machines and manufacturing systems.



# ABOUT US

---

Hernon Manufacturing Inc.® specializes in the production and distribution of high-performance adhesives, sealants and precision application equipment. Hernon was established in New York in 1978 and has been headquartered in Sanford, Florida since 1990.

Hernon's product portfolio includes over 5000 unique formulas for anaerobic adhesives, cyanoacrylates, epoxies, acrylics, UV curing adhesives/sealants and many more. We also provide custom adhesive formulations and application solutions to meet specific customer requirements. With a focus on innovation, quality and customer satisfaction, Hernon has established a worldwide presence and serves customers in over 66 countries. Our products are known for their durability, strength and ability to withstand even the most challenging environmental conditions.

» ISO-9001 REGISTERED

» PROUDLY MADE IN THE USA



**HERNON MANUFACTURING, INC.®**

121 Tech Drive, Sanford FL 32771

Ph: +1-407-322-4000 / Toll Free: 800-322-4000

**HERNON.com**

PG1\_1123\_3.0