

## Technical Data Sheet HASA 66071

January 2014

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### Product Description

**Hernon**<sup>®</sup> **HASA 66071** is a single component structural anaerobic adhesive formulated for bonding rigid assemblies at high temperatures. **HASA 66071** cures when it is confined between mating surfaces. **Hernon EF**<sup>®</sup> **Primer 50** accelerates the cure.

### Product Benefits

- Single component, ready to use adhesive.
- Room temperature cure.
- 100% active material, no solvents.
- Easy clean up. Wipe uncured adhesive from outer surfaces.
- RoHS 2011/65/EU Annex II and Halogen content (Cl,Br,I,F) compliance testing through independent 3<sup>rd</sup> party verification for electronic equipment.

### Typical Applications

- Bonding ferrite to plated metals in electric motors and loud speakers.
- Bonding of glass and ceramics.
- Where fast setting of adhesives with high structural properties is required.

### Typical Properties (Uncured)

Property	Value
Chemical Type	Modified urethane
Appearance	Amber liquid
Specific gravity @ 25°C	1.09
Viscosity @ 25°C, cP	15,000 – 18,000
Flash point	See MSDS

### Typical Properties (Cured)

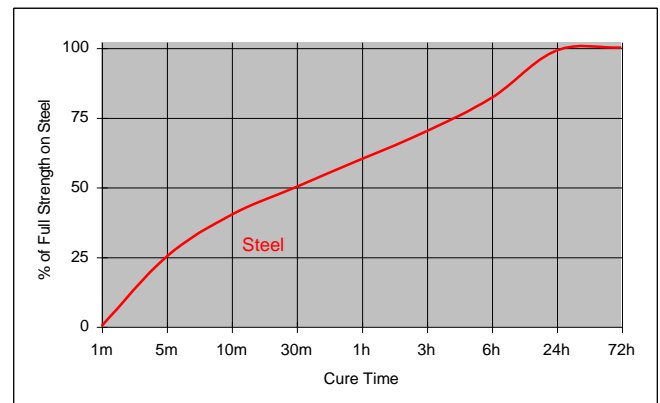
#### Physical Properties

Property	Value
Coefficient of thermal expansion, ISO 11359-2 (K <sup>-1</sup> )	100 x 10 <sup>-6</sup>
Maximum Gap Fill, in.	0.015

### Typical Curing Performance

#### Cure Speed vs. Substrate

The rate of cure will depend on the substrate used. The graph below shows the shear strength developed with time on grit blasted steel lap shears and tested according to ISO 4587. (**EF**<sup>®</sup> **Primer 50** applied to one surface)



### Typical Cured Performance

Shear Strength, ISO 4587

Grit blasted steel specimens **EF**<sup>®</sup> **Primer 50** on 2 sides

Property	Value
Fixture Time	<30 secs
RT cure, 24 Hours	≥ 16.9 N/mm <sup>2</sup> (≥ 1500 psi)
RT cure, 72 Hours	≥ 16.9 N/mm <sup>2</sup> (≥ 1500 psi)
Shear Strength, Aluminum	≥ 11.3 N/mm <sup>2</sup> (≥1000 psi)

#### Chemical/Solvent Resistance

Aged under condition indicated for 360 hours

Tested at 72°F (22°C).

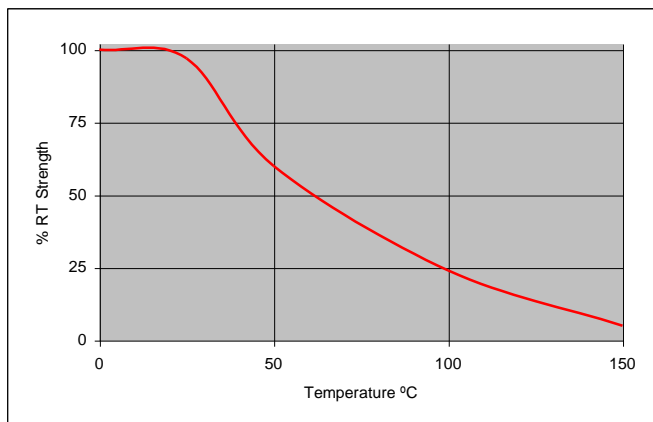
Chemical/Solvent	Temp, °C	% of Initial Strength
Water Glycol 50/50	150	20
Auto. Trans. Fluid	87	30
Gasoline	87	80
Motor Oil	87	30
Humidity, 100%RH	50	35

### Typical Environmental Resistance

Cured for 1 week @ 22 °C, **EF Primer 50** on 1 side  
Shear Strength, ISO 4587  
Steel (grit blasted)

### **Hot Strength**

Tested at temperature



### 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.

### **Directions for Use**

1. For best performance, bond surfaces should be clean and free of grease.
2. To ensure a fast and reliable cure, **EF® Primer 50** should be applied to one of the bond surfaces and the adhesive to the other surface. Parts should be assembled within 15 minutes.
3. The recommended bond line gap is 0.1 mm. Where bond gaps are large, (up to a maximum of 0.5mm), or

faster cure speed is required, activator should be applied to both surfaces. Parts should be assembled immediately, (within 1 minute).

4. Excess adhesive can be wiped away with organic solvent.
5. Bond should be held clamped until adhesive has fixture.
6. Product should be allowed to develop full strength before subjecting to any service loads, (typically 24 to 72 hours after assembly depending on bond gap and materials).

### **Storage**

**HASA 66071** 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**

**Heron®** offers a complete line of semi and fully automated dispensing equipment. Contact **Heron® 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. Heron's Quality Management System for the design and manufacture of high performance adhesives and sealants is registered to the ISO 9001:2008 Quality Standard.