

121 Tech Drive, Sanford FL 32771 PH: 407-322-4000 / 800-527-0004

HERNON.com

EST. 1978

Product Description

TECHNICAL DATA SHEET

Ultrabond[®] 55711

ISO-9001

Hernon[®] **Ultrabond**[®] **55711** is a single component anaerobic and UV curable, paste-like sealing compound formulated to provide instant sealing and bonding of electrical connectors. Upon exposure to UV energy an outer cured skin will be formed to prevent migration of the sealant out of the connector during normal daily handling. The sealant inside of the skin maintains its original property. Upon insertion of the wire to the connector, the sealant in the connected area will cure to offer an environmentally resistant and secure connection.

Typical Applications

• Wire connector sealant

Product Benefits

- No shrinkage due to solvent evaporation (100% solid)
- Excellent chemical and environmental resistance
- Does not migrate or drip
- Can be used on vertical surfaces
- Improves structural integrity of assembly
- UV curable

Typical Properties (Uncured)

Property Value		
Resin	Dimethacrylate ester	
Appearance	Orange paste	
Viscosity @ 25°C		
HBT, Spindle TB, 1 rpm:	400,000 to 550,000	
HBT, Spindle TB, 10 rpm:	100,000 to 150,000	
Specific gravity	0.90	
Flash point	See SDS	

Typical Properties (Cured)

Property Value		
Gap Fill, mm (in.)	0.381 (0.015)	
Temperature range, °C (°F)	-55 to 150 (-65 to 300)	

Typical Cure Performance

Shear Strength

Tested according to ASTM D1002.

Grit blasted steel lap-shear specimens

Cure Conditions	Shear Strength (psi)	
1 hour at 95°C and post-cured for 24 hours at 22°C	2000-3000	
1 hour at 150°C and post-cured for 24 hours at 22°C	3000-4000	

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 90 seconds, post- cured for 24 hours @ 22 °C	≥ 500
Glass to Steel	UV-cured for 90 seconds, post- cured for 24 hours @ 22 °C	100-350

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).

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 case, these aqueous washes can affect the cue 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.

Storage

Ultrabond[®] **55711** 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. 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.