HERNON®
Formulating Solutions

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Ultrabond® 55711

Product Description

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 @ 25ºC	
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, ºC (ºF)	-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 95ºC and post-cured for 24 hours at 22ºC	2000-3000
1 hour at 150ºC and post-cured for 24 hours at 22ºC	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 ºC	≥ 500
Glass to Steel	UV-cured for 90 seconds, post-cured for 24 hours @ 22 ºC	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 45ºF to 85ºF (7ºC to 29ºC) 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.