

EST. 1978 TECHNICAL DATA SHEET ISO-9001

Fusionbond® 379

Product Description

Hernon® **Fusionbond**® **379** is a highly thixotropic, two component, fast-curing methacrylate adhesive system with 1:1 mix ratio. **Fusionbond**® **379** is formulated to provide fixturing strength in less than 5 minutes.

Fusionbond® **379** is suitable for bonding a variety of substrates with a minimum of surface preparation.

Product Features

- Superior peel strength
- Little or no surface preparation
- Very rapid cure at room temperature
- Excellent environmental and chemical resistance
- Gasoline resistance

Bondable Substrates

ABS PET blends
Acrylics (PMMA) Phenolics

Aluminum Polycarbonate and blends

Brass Polyurethanes ¹
Ceramics PPO and PPO blends

Copper PVC & Vinyls
Epoxy Rim urethane
Fiberglass Rubber
Gel Coats Stainless steel

Nylon 6 or Nylon 6 Alloys¹ Steel

PBT blends

Typical Properties (Uncured)

Property	Part A	Part B
Chemical Type	Methacrylate	Methacrylate
Appearance	Blue	Black
Specific gravity	1.05	0.97
Viscosity at 25°C, cP	30,000 to 60,000	30,000 to 60,000
Mix ratio (by weight)	1	1

Typical Curing Performance

Property	Value
Working time, minutes	≤2
Fixture time*, using G/B steel, minutes	≤ 5

^{*}Fixture time is defined as the time to develop a shear strength of 0.1 N/mm².

Typical Properties (Cured)

Property	Value
Hardness, ASTM D2240, Shore D	75-85
Glass Transition Temperature (Tg) °C	105

Typical Cured Performance

Shear Strength, ASTM D1002 Grit-blasted lap-shear specimens

Substrate	Cure at 22°C	Value, psi
Steel	24 Hours	≥2500
Aluminum	24 Hours	≥2500

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).

Handling and Application

Mixing: It is highly recommended that either meter mix equipment or cartridges with static mix nozzles be used to properly ratio and dispense the adhesive. For hand mixing, combine Part A and Part B in the correct ratio and mix thoroughly. Heat buildup during and after mixing is normal. Keep the mixed sample under hood or in a ventilated area. To reduce excessive heat buildup due to high exothermic reaction, mix small amounts (preferably less than 20 gram) at a time. Mixing smaller amounts will minimize heat buildup.

Applying: Bonding surfaces should be clean, dry, and free of contamination. Extensive surface preparation is not required for **Fusionbond® 379** and good bonds can be formed on most substrates after a solvent wipe. To assure

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¹ May need special treatment

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maximum bond strength, surfaces must be mated within the adhesive's open time. Use enough material to completely fill the joint when parts are clamped.

Curing: Parts should remain undisturbed during the interval between the adhesive's open time and fixture time. After the fixture time is achieved the material has reached handling strength. Cure temperatures below room temperature (70°F to 75°F) will slow the fixturing time. Temperatures above room temperature will shorten the open time and the fixturing time.

Clean Up: It is important to clean up excess adhesive from the work area and application equipment before it cures. Use Hernon® Cleaner 62 or solvent for removing uncured adhesive.

Storage

Fusionbond® 379 is flammable. Keep containers tightly closed after use. Keep away from heat, sparks, and open flames.

Fusionbond® **379** should be stored in a cool, dry location in unopened containers at a temperature between 45°F and 75°F (7°C and 24°C) unless otherwise labeled. Shelf life can be extended by refrigeration at 45°F to 55°F (7°C to 13°C). To prevent contamination of unused material, do not return any material to its original container.

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.

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