



MMAs

Methylmethacrylate Adhesives



H.B. Fuller

Cyberbond CB



No toxic
peroxides

No toxic
accelerators

WHY CYBERBOND MMA ADHESIVES?

Cyberbond methacrylate adhesives, also known as MMAs are reaction adhesives mostly used for structural joints of metals and plastics. They represent a perfect alternative to traditional joining methods such as screwing, riveting or welding. The hardening of our MMA adhesives is based on a polymerization reaction which is triggered by a reactive radical usually consisting of peroxide. Compared to competitive MMAs Cyberbond MMAs cure less exothermic which minimizes the risk of potential cracking in the substrates, especially with plastic joints.

The most significant difference is the fact that Cyberbond MMAs do NOT consist of toxic peroxides or toxic accelerators. Additionally our MMAs with a 1:1 mix ratio are also free of methacrylic acids.

Due to continuous further developments, our Cyberbond MMA adhesives are nowadays real all-rounders and often the only solution compared to other adhesives. Thanks to their individual properties, high-strength bonding of a wide variety of material combinations with and among each other is possible.

BENEFITS

Cyberbond MMA adhesives have excellent UV resistance and can prevent discoloration with special stabilizers/pigments as required. Methylmethacrylates are extremely tough and, despite their enormous strength, are characterized by a high elongation at break. These advantages are excellent for dynamically highly stressed and temperature-loaded compounds. Our products can also withstand high temperatures of over 200 °C for short periods, such as in powder coating, without damage.

MMA's basically do not require a primer and bridge larger gaps depending on the product. We are even able to offer one special grade that bonds PE/PP without pretreatment.

MMA's are partially thixotropic to ensure application on vertical surfaces as well. Excellent ageing and weathering resistance are also among the positive properties of our methylmethacrylates.



- Special grade to bond PE/PP **without** pretreatment available
- Excellent UV, temperature, ageing and weathering resistance
- High elongation at break
- Formulation without toxic accelerator system
- For the majority of substrates no primer required
- Even and complete polymerisation also at thicker layers
- No influence due to metal ions
- Formulation without acid contents, thus no corrosion on metals
- Good chemical resistance
- Good strength performance at temperature loads (-40 °C to 120 °C)
- Good elongation and peeling properties

APPLICATIONS

- For electric motors special grades with resistance up to 150 °C are available
- Electronics
- Magnets
- Carbon fibre bonding feasible
- Mechanical engineering
- Plansifter for mills
- Bonding of headlamps or rear lights in Automotive
- Handle of ski poles
- PE/PP bonding without pretreatment
- LED lamps, office lamps, industrial lamps
- Emblems on beverage or perfume bottles
- Agricultural engineering
- Tool, model and mold making
- Motor homes and caravans





We are here when you need us. For more information, please contact cyberbond@hbfuller.com.



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For more information about our company, visit www.hbfuller.com or www.cyberbond.eu



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IMPORTANT: It is the user's responsibility to test and determine the suitability of a product for the user's intended use. Any product samples provided for testing are provided in accordance with standard limited warranties as stated on our technical data sheets.

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