

Product Description

Infinity Bond MMA 530 is a two-part methacrylate structural adhesives. MMA 530 is effective in bonding various substrates, including fiberglass, steel, aluminum, and various plastics (not low energy surfaces). Infinity Bond MMA 530 has a 1:1 ratio and a working time of 25 to 40 minutes, it achieves nearly 90 percent of its ultimate strength in 90 to 150 minutes at room temperature curing. Infinity Bond MMA 530 is not UV stable and will yellow over time, and must not be used to create imperceptible seams in countertops. The yellowing will not affect bond performance, but will affect bond appearance.

Company Information:

Infinity Bond Adhesives
7667 Cahill Rd, STE 100
Edina, MN 55439
Phone: (844) 366-7272
Website: www.infinitybond.com

Characteristics

Work Time	25 to 40 minutes (at 75°F/ 24°C)
Fixture Time	90 to 140 minutes (at 75°F/ 24°C)
Can Be Moved In	180 minutes
Operating Temperature	65°F to 85°F (18°C to 30°C)
Gap Filling	.375 inches (3/8 inch)
Mixed Density	8.1 lbs/gal (.96 g/cc)
Flash Point	51°F (11°C) – See SDS

Chemical Resistance

Excellent Resistance to:

- Hydrocarbons
- Acids and Bases
- Vinegar
- Wine and Condiments
- Most Household Foods

Susceptible to:

- Polar Solvents
- Super Strong Acids and Bases

Physical Properties

Uncured

- Viscosity (cps)
- Color
- Density (lbs/gal)
- Mix Ratio (wt or vol)
- Mixer Recommendation Cartridge (200/400ml): MFQX 08-24T – Square 24 element White/Green Mix Tips (1:

Resin

130,000 – 250,000
Translucent
8.2
1.0

Activator

130,000 – 250,000
Amber
8.0
1.0

Mechanical Properties

Tensile Strength	Substrate	Results	Failure Type
• Strength, psi	Acrylic Solid Surface	2,000 - 3,000	Cohesive
• Strength, psi	Polyester Solid Surface	2,000 – 3,000	Substrate
• Strength, psi	Steel/Stainless Steel	1,800 – 2,500	Cohesive
• Strength, psi	Aluminum	1,800 – 2,500	Cohesive

Handling & Application

Infinity Bond MMA 530 resin (Part A) and activator (Part B) are flammable. Contents include Methacrylate ester and acids. Keep containers closed after use. Wear gloves and safety glasses to avoid skin and eye contact. Wash with soap and water after skin contact. In case of eye contact, flush with water for 15 minutes and get medical attention. Harmful if swallowed. Keep out of the reach of children. Keep away from heat, sparks, and open flames. Do not smoke cigarettes or anything else while handling or near the product. Refer to the MMA 530 Safety Data Sheet for more complete safety instruction. To assure maximum bond strength, surfaces must be mated together within the specified working time, and all clamps affixed within that time. Use sufficient material to ensure that the joint is completely filled when parts are mated and clamped. Avoid over clamping parts, which may cause a dry joint or a joint starved of adhesive. All adhesive application, part positioning, fixturing, and clamping should occur before the working time of the adhesive has expired. After the indicated working time, parts must remain undisturbed until the fixture time is completed. Components bonded, adhesive, and shop temperature can have a significant effect on the work and fixture time of the adhesive. Application of MMA 530 adhesive at temperatures between 65°F and 85°F (18°C and 30°C) will ensure proper cure. Temperatures below 65°F (18°C) will slow cure and fixture speed. MMA 530 adhesives will still react, but will take longer. Temperatures above 85°F (18°C and 30°C) will increase cure and fixture speeds, and there's a risk that the adhesive will be hardened or too thick to bond materials. The viscosities of MMA 530 adhesives are affected by temperature.

Handling & Application

The shelf life of MMA 530 is nine (9) months from the date of manufacture based upon continuous storage at room temperature (77°F or 25°C). Storage of MMA 530 adhesives in refrigerated compartments will extend the shelf life even more. Do not store MMA 530 adhesive or any other adhesives in a refrigerator which has food or lunch products in them. Be sure to bring MMA 530 adhesives to room temperature for 24 hours before use, otherwise longer cure and fixture times may be expected. Long-term storage at temperatures above room temperature will shorten the shelf life of MMA 530 adhesives considerably. Storage at temperatures above 100°F or 38°C could shorten the shelf life to less than one month. MMA 530 adhesives contain no water, so freezing of the adhesive for short periods is permissible, but is not encouraged.

Note to Customers

NOTE: Information contained herein is based on tests we believe to be reliable and accurate. It is offered in good faith for the benefit of the consumer. Infinity Bond shall not be liable for any injury, loss, or damage in the use or handling of its chemical products since conditions and use are beyond our control. In every case, we urge and recommend the user conduct tests to determine to their own satisfaction that the product is of acceptable quality and suitability for their particular purpose under their own operating conditions. Statements concerning possible use of our products are not intended as recommendations to use our products in the infringement of any patent, or for any particular purpose or application. These products are intended for industrial use only.