

Master Bond Business Digest

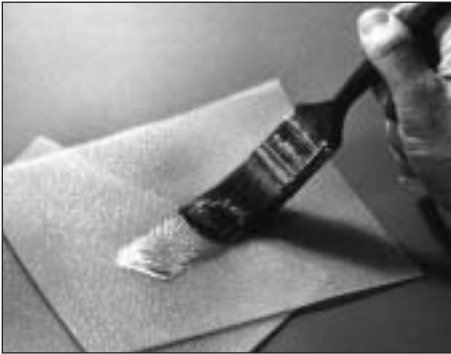
Volume 11, Number 312

FAST CURING ADHESIVE HAS HIGH THERMAL CONDUCTIVITY

Electrically insulative, thermally conductive Master Bond epoxy adhesive EP24AN offers fast cures at room temperatures. This two component system has a 1 to 1 mix ratio, weight or volume. It is easy to apply, spreads evenly and gels in 20 minutes at ambient temperatures. EP24AN has a thermal conductivity of over 22 Btu/in/ft²/hr/°F. It's volume resistivity at 75°F is $>10^{13}$ ohm-cm

Master Bond EP24AN has excellent adhesion to both similar and dissimilar substrates. Tensile shear strength is over 1,600 psi. It has a low coefficient of expansion, low shrinkage and superb dimensional stability. Thermal shock and chemical resistance is outstanding.

EP24AN is available in 1/2 pint, pint, quart, gallon and 5 gallon container kits.



One Part Silver Filled Silicone Adhesive

Master Bond Master Sil 705S is an easy to use, one component, non-corrosive, electrically conductive silicone adhesive. It cures readily at ambient temperatures when exposed to atmospheric moisture. Master Sil 705S features exceptionally low volume resistivity. It is serviceable over the wide temperature range of -75°F to +400°F. Highly flexible, Master Sil 705S has a shore A hardness of 70.

This single component system requires no mixing. It bonds readily to other silicone based materials, a feature that allows good bonding to gaskets. Additionally, Master Sil 705S can also be used in EMI/RFI shielding applications.

HIGHLY FLEXIBLE EPOXY POLYSULFIDE ELASTOMER RESISTS MANY CHEMICALS

Master Bond EP21TPFL-1 is a two component, low viscosity, highly flexible epoxy/polysulfide elastomer compound for high performance bonding, sealing and casting. It is formulated to cure at room temperature or more quickly at elevated temperatures.

EP21TPFL-1 offers outstanding resistance to fuels, water and many aggressive chemicals. It exhibits excellent bond strength to both similar and dissimilar substrates. EP21TPFL-1 has long term durability and resistance to thermal and mechanical shock. It maintains its properties even upon prolonged exposure to adverse environmental conditions.

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EP21TPFL-1 is 100% reactive and does not emit any volatiles during curing. It has superior electrical insulation properties. Strength and flexibility characteristics compare favorably with those of other elastomers such as silicones and urethanes. It is available in convenient applicators and comes in low and higher viscosity versions.

ONE PART EPOXY ADHESIVE CURES AT 80°C

New high performance, single component, epoxy adhesive Supreme 3HT-80 offers both high bond strength and low temperature cure. Typical one part epoxies require a 250°F-300°F curing temperature. Supreme 3HT-80 will cure in 30 minutes at 175°F and in 10 minutes at 250°F. No mixing is required before use and the working life for this compound is unlimited.

Master Bond Supreme 3HT-80 is extremely durable and exceptionally tough. Bonds have superior resistance to impact, thermal shock, vibration and stress fatigue cracking. They feature both high shear and peel strength over the service operating temperature range of -100°F to +350°F. Supreme 3HT-80 has good electrical insulation properties and chemical resistance. It is easy to use and spreads evenly and smoothly.

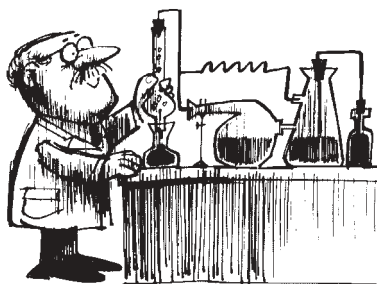


Low Viscosity Epoxy System Meets NASA Low Outgassing Specifications

Two component, high performance epoxy resin system Master Bond EP30-2 meets the requirements of MIL R 9300B and NASA low outgassing specifications. This bonding, sealing and laminating formulation cures at room temperatures. It has a 100/10 mix ratio by weight and is easily applied through convenient packaging. It is especially recommended where bonded assemblies must exhibit superior dimensional stability. Shrinkage upon cure is exceptionally low - 0.0003 in/in.

This resin system is 100% reactive and does not contain any solvents or other volatiles. Master Bond EP30-2 is remarkably resistant to thermal cycling and chemicals, including water, oil and most organic solvents. Adhesion to both similar and dissimilar substrates is excellent. The hardened resin is an electrical insulator. It has a service operating temperature range of -60°F to +250°F and cures clear.

HOT FROM THE LAB...



- ◆ **One Part Non-Flowable Paste For Medical Applications**
- ◆ **UV Curable System With High Elongation**
- ◆ **Ultra Low Viscosity Silicone Based Conformal Coating**

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