



ADVANCED ADHESION INC.

MARKET-READY ADHESIVE FORMULATIONS

Mr. Sticky's[®] Vibra-Bond[™] - Sales Points

Welcome to the sales team for Mr. Sticky's[®] Vibra-Bond[™]! In order to assist your sales effort, we have compiled the following Features and Benefits that may help your customers understand the product. Please feel free to offer us any comments and or successful sales points so that we can add them to this document.

Most buyers want to know what is different about this adhesive versus existing glues:

Shake: Resists de-bonding due to vibration. Most structural adhesives, including most epoxies, are extremely brittle. Many adhesives can only stretch 1-4%, while Vibra-Bond[™] can stretch over 100%. This translates into bond resiliency and increases the overall amount of energy required to break a bond. Many bonds which seem fine when first made fail later due to a lack of toughness. What actually happens in many cases is that typical adhesives remain bonded to both substrates, but crack down the middle due to vibration, causing a failed bond. Vibra-Bond[™] keeps its flexibility over time, so is much more successful in vibrating/shaking-bond environments.

Rattle: Vibra-Bond[™] is very useful in the bonding of joints that are subject to rattling. Because of its' soft formulation, Vibra-Bond[™] damps vibration, limiting rattling, squeaks, shrieks, and other offensive acoustics. Most adhesives are brittle and therefore transmit sound. Use Vibra-Bond[™] for speaker cases when you want the speaker (not the case) to create the sound! Vibra-Also limits sound in bonds on Appliances, Machinery, and Transportation applications.

Roll: Vibra-Bond[™] offers many solutions for use in transport applications. Its' unique toughness, imparted by flexibility and softness, cause the energy required to break a bond to be significantly greater than traditional structural adhesives.

When testing a typical brittle epoxy vs. Vibra-Bond[™] on a tensile lap-shear test machine for toughness, one generates a stress-strain graph. The vertical axis is represented by the load or force, and the horizontal axis represents the stretch or elongation. A typical brittle epoxy has a very vertical curve, since it does not stretch very much, whereas Vibra-Bond[™] displays more of a 45° curve, stretching as it is pulled. The area under the graphed curve represents the amount of energy that is required to break a bond.

The amount of area under the Vibra-Bond[™] curve is usually several times that of the typical brittle epoxy. This means that total energy trying to de-bond the joint can actually be much greater than typical brittle epoxy and not fail. Soft, flexible Vibra-Bond[™] also distributes the load better across the bond surface! Vibra-Bond[™] is an adhesive with significant toughness!

Bonds wood, steel, plastics and more: Vibra-Bond™ can bond to most substrates including steel, aluminum, stainless, brass, copper, ceramics, rubber, masonry, glass, PVC, ABS, polyurethanes and fiberglass. *Note: Most brittle adhesives cannot effectively bond to plastics.*

Strong, Gap-Filled Bonds: Vibra-Bond™ has properties that promote gap-filling while retaining bond strength. Its softer, flexible formulation allows distribution of force across a gap fill, so your parts don't need to fit perfectly. Vibra-Bond™ works best with gaps of .005-.020" *Note: Many adhesives have little or no tensile strength, so can't gap-fill. Compare technical data on our website with other glue websites. Most provide little data, relying on testimonials.*

Exterior Waterproof Vibra-Bond™ is Waterproof and Exterior rated. It can also be applied to wet or dry substrates. *Note: many adhesives are "water resistant" not "waterproof", cannot be applied or maintain bonds in wet or exterior environments.*

Non-Sag formula Vibra-Bond™ is made "to stay where you put it". This highly thixotropic (non-sag) formula resists sagging during application and curing. A 1/4" diameter bead of glue, applied horizontally on a vertical surface, will not run, but will cure in place. This means that it will also stay in place when applied to your project.

APPLICATIONS: Appliance repair, Machinery Repair, Automotive Repair, Marine Repair, Farm equipment Repair, HVAC Repair, Refrigeration Repair, RV Repair.



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