

## Fusion Series Epoxy User Guide & Technical Data Sheet

**Fusion VMX** is formulated with a revolutionary new epoxy technology that gives the user an unprecedented amount of control over the flex characteristics of the cured bond line. Our proprietary formula uses a unique chemistry that allows the user to vary the ratio of resin to catalyst in order to achieve performance properties tailored specifically to their application or personal preference. Fusion VMX is formulated in a high viscosity, non-sagging paste that exhibits superior gap filling, and high permanence to a wide variety of substrates, with zero shrinkage and outstanding flexibility under extreme environmental conditions. Fusion VMX's unique chemistry allows it to be measured and mixed up to 50% in either direction to vary the flex characteristics of the cured bond line.

1 part resin to 1 part catalyst yields a moderately flexible bond line

1 part resin to .5 catalyst yields a stiffer bond line

1 part resin to 1.5 catalyst yields a more flexible bond line

To use, simply extract the desired amounts out of the container using a Popsicle stick (or similar) and mix on a flat, nonporous surface for two minutes. We recommend starting with a 1:1 mix, and if necessary, adjusting the ratio as desired. Working time at room temp: 45min. Full cure at room temp: 24 hours.

**Fusion 15** is a non-sagging, quick curing epoxy adhesive designed specifically for high production assembly and rapid turnaround time. Fusion 15 is measured and mixed in a convenient 1:1 ratio, and offers the user a full 15 min. of working time before it starts to set up. This extended cure cycle provides an additional 10 minutes for adjustments and cleanup over the more common 5 minute formulations. Fusion 15 is formulated in a high viscosity, non-sagging paste that exhibits superior gap filling, and high permanence to a wide variety of substrates, with zero shrinkage and outstanding flexibility under extreme environmental conditions. To use, extract equal amounts of resin and catalyst with a popsicle stick or similar tool. Mix thoroughly for 2 minutes on a flat, non-porous surface, while intermittently scraping the mixing surface area to be sure there is no material left unblended. To achieve maximum permanence, mating surfaces must be clean and properly abraded. Fusion 15 has a pot-life of 15 minutes, and reaches a full structural cure in 25 minutes at 70 degrees Fahrenheit