

Mixing and Contamination of Dymax Products

Dymax adhesives and coatings are 100% reactive, contain no solvents, and are designed to be dispensed and cured as is. Contact or mixing other chemicals or adhesives with Dymax products before cure may result in decreased performance. Users should ensure that:

1. **The material is not mixed with a thinner or thickener.** Example: Some customers may want to change the viscosity of the material by cutting it with a solvent. This is not recommended. Adding solvent can lead to unpredictable results. Solvent flash-off may be slower than expected, leaving voids in the coating or the coating remains sticky. Many solvents contain contaminants and residues. These contaminants can prevent full cure or leave residues that compromise adhesion.
2. **The material is not dispensed or sprayed with another wet material.** Example: Some conformal coating applications may require a Dymax product as well as a silicone to properly protect a printed circuit board. When sprayed together cross contamination prevents one or both of the coatings from curing. The Dymax material should be sprayed and cured before applying silicone.
3. **Surface to be bonded is clean.** Contamination with materials including mold releases, silicones, Teflon, oil-based materials, and "no clean" fluxes can interfere with cure and adhesion. Example: A mold release is sprayed onto one area and allowed to dry. Dymax 984-LVUF is then sprayed on the same surface and cured. This may result in the 984-LVUF not sticking to the surface. In particular, the use of mold release may affect the short-term wetting or long-term adhesion of the coating.

It is difficult to predict the outcome of any adhesive or coating's ability to withstand contamination by other chemicals. Complete and thorough evaluation of the adhesive or coating in the application and process is the responsibility of the customer. It is critical for the customer to include testing against the specific requirements for the lifetime use of the device. Only the customer can determine the suitability of the coating or adhesive for the application and process.

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