



## **Electro Optical Components, Inc.**

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# **Inerting and Adhesion Issues with MY Polymers Low Refractive Index Coatings**

A common problem has to do with the issue of **Inerting**:

For MY Polymers very low RI products - it is very important that during UV curing the surface of the adhesive (or most of it) is not exposed to the air. Sometimes the whole adhesion/encapsulation site is enclosed in some enclosure - and there is no problem in such a case (this is the case for re-coaters).

Other times, most of the adhesive is not exposed to air because there is no exposed surface (such as the case when you bond 2 flat layers together).

When the material is exposed some means of isolation is required. There are various ways:

1. One of the most common is to direct a flow of Nitrogen towards the bonding site in a Nitrogen inerting chamber.
2. There is a simple solution of laying a piece of PET film on the liquid adhesive and directing the UV light through the PET.
3. MY Polymers can help in the design of an improvised Nitrogen inerting chamber.

Another issue is that the very low index adhesives have relatively **Poor Adhesion**.

This can be solved by using MY Polymers primers.