**Polytech Process – Control Philosophy**

* Non flammable process. Exothermic reaction takes place, blending and mixing of liquids. Heat provided by electric oil heaters. Liquids added from bulk tanks or IBC’s.
* There are many product variants of this product group. Some binders use 3 MDI variants, others use 2 or 1 MDI.
* MDI liquid (from bulk tank or IBC) added to the vessel (helps to keep it clean).
* Heated to 60˚C using electric oil heaters.
* The following liquid added to the reactor:
1. Polyether Polyol - liquid
* Heated for 2 hours until NCO target reached. This is a slightly exothermic reaction. (NCO - Percentage of reactive group that remains – a measure of how much of the reaction has occurred).
* The following liquids are added to the reactor for 30 minutes:
1. Plasticiser (sometimes 2)
2. Di Basic Ester (To clean the lines through)
3. Bezoyl Chloride (Stabiliser)
* Test for NCO again.
* The finished product is pumped into IBC’s or drums.