Applications Lab, Cincinnati Oh.

Substrate Specific Adhesive Recommendation

Substrate: Medex moisture resistant board by Roseburg

Assumption: Opposite substrate being HPL

Adhesive: 7709 vs. standard PVA's

By definition:

Medium-density fiberboard (**MDF**) is an engineered wood product made by breaking down hardwood or softwood residuals into wood fibers, combining it with wax and a resin binder, and forming panels by applying high temperature and pressure. MDF is generally denser than plywood. It is made up of separated fibers but can be used as a building material similar in application to plywood. It is stronger and much denser than particle board.

Choice Adhesives is seeing MDF boards becoming denser, thus having less porosity, ultimately becoming more difficult to bond to, particularly in pressing / panel layup applications. With the addition of moisture resistant MDF boards added to the market place such as a product called Medex by Roseburg, the MDF becomes even more dense having a lower moisture content level than standard MDF by 2% or more.

Choice Adhesives has found our 7709 will yield the best possible bond to the dense surface of MDF and particularly so with the moisture resistant variety like Medex. The 7709 product is a hybrid PVA blend that performs considerable better than standard PVA's on difficult to bond surfaces like a dense smooth surface of MDF substrates, specifically with a MR variety.

<u>Special consideration</u>

- In pressing applications, the denser the substrates, water has more difficulty in escaping the bond line and thus may require additional press or curing time.
- Moisture resistant boards like Medex can still achieve excellent HPL bonds with both SBR and Neoprene contact cements by following general contact cement bonding practices.