Adhesives

Furniture manufacturing can never be thought of a good quality adhesive which is playing the master application during the process. Various applications like edge banding, HPL lamination, Paper lamination, sandwich construction, foil lamination, Aluminum foil lamination, ACP lamination, Hot pressing, Cold pressing, Veneer lamination, joinery applications, Membrane pressing, vacuum forming, thermoforming, wood lamination, CPL lamination, PVC lamination, Profile wrapping, overlay lamination, Paper veneer lamination are taken care by Adhesives.

There are different type of adhesives available based on the applications. Major categories fall into water based adhesives, Solvent based adhesives, Hot melt adhesives, EVA/Hot melt adhesives, PUR/Hot melt adhesives.

Water Base Adhesive is a mixture in a liquid state that adheres or bonds items together. Adhesives may come from either natural or synthetic sources. The types of materials that can be bonded are vast but they are especially useful for bonding thin materials. Adhesives cure (harden) by evaporating the water from the surfaces. Polyvinyl Acetate, PVA, Neoprene or Latex is the common adhesive bonding materials,

Hot Melts

Hot melts generally aren't very strong but work well as an instant adhesive for fast production on components that won't have much pressure placed on them.

Pressure Sensitive Adhesives

Pressure sensitive adhesives are durable in various environments and excellent for labeling and on adhesive tapes but really aren't much of an option for industrial adhesives purposes.

Polyurethanes

Polyurethanes are known for their high resistance to low temperatures and are excellent for bonding GRP, or glass fiber reinforced plastics. Polyurethanes are impact resistant and cure quickly with the help of special tools.

Epoxies

Available in one and two part, they offer structural strength on metals but do not excel on plastics. Single part epoxies require ovens to cure them and two part epoxy may require a good bit of time to cure.

Toughened Acrylics

Toughened acrylics come in one and two part systems and work well on a wide variety of surfaces. Toughened acrylics are quite versatile, working with minimal surface preparation.

Silicones

Silicone adhesive products aren't incredibly strong, but are quite flexible and resistant to high temperatures. Two-part silicone products tend to work more effectively than the one part products. These are a popular choice for shower and bathtub repairs.

Anaerobics

Anaerobics are adhesives which cure when in contact with metal without contact with air. Anaerobics would include thread locker adhesives, used to lock bolts into nuts.

Phenolic

Phenolic require heat and pressure for the curing process but have been proven to be excellent in bonding metals, or bonding metals to wood.

Polyimides

Polyimides are based on synthetic organic chains. These are available in liquid and film form but tend to be more expensive and tricky to handle efficiently. Polyimides are generally excellent with regards to durability under extreme temperatures.

Indian manufacturers: Fevicol, Pidilite industries, Vemicol, Bluecoat, Polybond, Starke,

Global manufacturers: H B Fuller, Bayer, Kleibert, Henkel, Bostik, Trelleborg, Stabond, Kleibert, Jowat, Ideal Jacobs, Sworl, 3M, Ad tech, Ashland, ASI, Arcor, Boss, Chemmat, Daubert, H B Fuller, Huntsman, GTM, Gallade, Hexion, IFS, Milken, Legacy, Magnolia, Westech, Cyberbond, DSM Melamine, GSFC, Hexion, Saba etc..