

Adhesives

Adhesive	Use
Natural adhesive: Scotch glue	Made from animal hide and bones, is supplied in hard slabs called "cakes" or smaller pieces called beads or pearls. The glue is melted in a water heated glue pot and is applied hot. It solidifies and hardens on cooling.
Synthetic resin: PVA (Poly Vinyl Acetate)	White, resin cement, used with wood, paper and cloth. Widely used in schools and in industry.
Synthetic resin: Cascamite	Urea formaldehyde resin wood glue A waterproof powdered synthetic resin wood glue. It is used for interior & exterior joinery, shop fitting, synthetic laminates, veneers and boat building.
Synthetic resin: ResinMite	
Synthetic resin: Aerolite 306	
Contact adhesive: Thixofix	Adhesive is applied to surfaces that will be bonded, then allowed to dry. When both surfaces are touch-dry, they are brought together to form a permanent, non-adjustable, bond.
Contact adhesive: Evostik Impact	Contact adhesives are used for bonding laminates, rubber, metal, leather and fabrics etc. to manufactured boards.
Acrylic Cement: Tensol Cement (Tensol 12)	Tensol 12 is a single component cement used to bond cast acrylic sheet. It hardens due to solvent evaporation.
Acrylic Cement: Tensol Cement (Tensol 70)	Tensol 70 is a two part catalyst cement used to produce high strength bonds to acrylic sheet.
Latex Adhesive: Copydex	Latex adhesives are safe, strong, multipurpose, water based adhesives used for bonding paper, board, fabric, carpet, leather and upholstery
Polystyrene cement	A solvent based cement that melts the surfaces of the polystyrene, fusing them together as the solvent evaporates.
Hot-melt glue gun	Various compositions of thermoplastic glue sticks applied by a heated glue gun.
EVA (Ethylene Vinyl Acetate)	Hot melt adhesive used in bookbinding, furniture making, sealing cases, cartons and packages.
"Super Glue" Cyanoacrylate adhesive	Cyanoacrylate adhesives are rapid bonding, high strength adhesives used for bonding small objects. They cure by reacting with the moisture on the surface of the parts and are most suited to bonding plastic and rubber components.
Silicone adhesives and sealers	Silicone adhesives are available in single or two-part forms. The two part adhesives need to be mixed to cure. Single part adhesives are often used as bath and shower sealants and are particularly suitable for applications where large gap filling is required.
Polyurethane adhesives and sealants	Polyurethane adhesives may be one-part or two-part systems. They are used to bond glass fibre reinforced plastics (GRP), glazing of automobiles directly onto the vehicle bodywork and in lamination processes. Sealing compositions may be used for bonding steel, aluminium, wood, polyester, epoxy coatings and common building materials.
Anaerobic adhesives	Anaerobic adhesives cure in the absence of air and are generally used to lock close fitting metal parts together such as nuts and bolts.

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Epoxy resins: Single part	Single part epoxy adhesives consist of a resin and a catalyst hardener. The catalyst is inactive at room temperature. To cure the adhesive, the resin/catalyst mixture needs to be heated to activate the catalyst.
Epoxy resins: Two part	Two-part epoxy adhesives consist of two components that need to be thoroughly mixed together in order for the adhesive to cure. Curing time is reduced in a hot environment.
Toughened Adhesives	High strength adhesives tend to be brittle. This brittleness can lead to cracking so toughening techniques that remove some of the brittleness are being developed. A technique used with acrylic and epoxy-based adhesives involves dispersing small particles throughout the adhesive which make the adhesive less prone to cracking.