

Things To Think About When Choosing An Adhesive

OBJECT VS. ADHESIVE

- How strong is the object? • How strong is the adhesive?
 What is the function of the object? • How suitable is the adhesive?
 Is the surface clean of dust/grease? • Does the adhesive flow well?
 Does the joint need to hold up? • Is the adhesive long lasting?
 How visible is the joint? • Is the adhesive invisible?
 How permanent is the joint? • Is the adhesive readily reversible?
 Is the adhesive available, non-toxic and safe to use?

TYPES OF ADHESIVES AVAILABLE

<p>EPOXY RESINS</p> <ul style="list-style-type: none"> • Formed by chemical reaction in situ between two different Ingredients • Very strong bond • Permanent in some materials-difficult to reverse • Turn yellow/ brittle over time • Apply with glue gun • Setting time quick/some longer • <u>EXAMPLES-</u> Devcon 5-minute epoxy Milliput® Hxtal NYL-1 (glass) 	<p>MELT –FREEZE</p> <ul style="list-style-type: none"> • Heated, applied to surfaces and joined when freezes to solid • Weaker bond • Slightly reversible • May soften when exposed to heat • Apply with electric glue gun • Setting time quick • <u>EXAMPLES-</u> Paraffin Wax Micro-crystalline wax Bees wax 	<p>SOLVENT ADHESIVES</p> <ul style="list-style-type: none"> • Adhesive dissolved in a liquid solvent/ when set solvent evaporates leaving adhesive behind • Strong / semi-strong bond • May soften in excess heat • Reversible in solvent • Application varies • Setting time varies, not instant • <u>EXAMPLES-</u> Acryloid B-72 (acrylic) Polyvinyl acetate Cellulose Nitrate CM bond (white glue)
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