

Model Document: Part-by-Part Method of Comparison

Woodworking adhesives are rated primarily according to their bonding strength, moisture resistance, and setting time.

Bonding strength is categorized as very strong, moderately strong, or adequate for use with little stress. Contact cement and plastic resin glue bond very strongly, while aliphatic resin glue bonds moderately strongly. White glue provides a bond least resistant to stress.

The *moisture resistance* of woodworking glues is rated as high, moderate, or low. Plastic resin glue and contact cement are highly moisture resistant, aliphatic resin glue is moderately moisture resistant, and white glue is least moisture resistant.

Setting time for the glues varies from an immediate bond to a four-to-six-hour bond. Contact cement bonds immediately and requires no clamping. Because the bond is immediate, surfaces being joined must be carefully aligned before being placed together. White glue and aliphatic resin glue set in 30 minutes; both require clamping to secure the bond. Plastic resin, the strongest wood glue, sets in four to six hours and also requires clamping.