

Model Document: Whole-by-Whole Method of Comparison

White glue is the most useful all-purpose adhesive for light construction, but it cannot be used on projects that will be exposed to moisture, high temperature, or great stress. Wood that is being joined with white glue must remain in a clamp until the glue dries, which takes about 30 minutes.

Aliphatic resin glue has a stronger and more moisture-resistant bond than white glue. It must be used at temperatures above 50°F. The wood should be clamped for about 30 minutes. . . .

Plastic resin glue is the strongest of the common wood adhesives. It is highly moisture resistant, though not completely waterproof. Sold in powdered form, this glue must be mixed with water and used at temperatures above 70°F. It is slow setting, and the joint should be clamped for four to six hours. . . .

Contact cement is a very strong adhesive that bonds so quickly it must be used with great care. It is ideal for mounting sheets of plastic laminate on wood. It is also useful for attaching strips of veneer to the edges of plywood. Because this adhesive bonds immediately when two pieces are pressed together, clamping is not necessary, but the parts to be joined must be carefully aligned before being placed together. Most brands are flammable, and the fumes can be harmful if inhaled. To meet current safety standards, this type of glue must be used in a well-ventilated area, away from flames or heat.