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Materials & Treatment Applications for Home Repair

Basic Adhesives Chart	
JOB DESCRIPTION	DESIRABLE ADHESIVE(S)
All-purpose woodworking, hard and softwoods	Casein glue, Animal glue, Plastic resin glue, Polyvinyl glue
Gluing metal to wood	Epoxy glue, Rubber cement
Repairing broken ceramics or masonry	Epoxy glue
Doweling work	Polyvinyl glue, Plastic resin glue
Veneering	Plastic resin glue, Polyvinyl glue
Cabinetwork	Plastic resin glue, Polyvinyl glue
Repairing leather, canvas, or cloth fabric	Clear cement, Fabric mending adhesive
Gluing plastic to metal, wood, or plastic	Epoxy glue
Gluing glass to glass	Epoxy glue
Repairing cracks in wood beams and joists	Casein glue
Gluing rubber to metal, wood, or glass	Contact cement, Rubber cement
Gluing metal to metal	Epoxy glue
Gluing linoleum to wood	Plastic resin glue, Casein glue, Contact cement
Gluing chipboards to wood	Plastic resin glue, Casein glue, Contact cement, Polyvinyl glue
Tile setting and waterproofing	Silicone adhesive

Caulking Chart							
	Latex	Vegetable Oil	Silicone	Butyl	Nitrile	Acrylic Polymeric	Polysulfide
Required Primer	Metal only	Porous surface	Bonding agent	None	None	None	Masonry only
Tack-free time	15 - 35 min.	2 - 26 hours	60 min.	30 - 90 min.	10 - 25 min.	10 - 30 min.	24 - 72 hours
Ease of Use	Good	Fairly good	Fairly good	Fairly good	Fairly good	Poor	Fairly good
Longevity	2 - 10 years	1 - 5 years	15 - 20 years	15 - 20 years	15 - 20 years	15 - 20 years	15 - 20 years
Application temperature	40 F	60 F	0 F	40 F	35 F	Warm to 120 F	0 F
Adhesion to:							
Wood	Excellent	Fairly good	Excellent	Excellent unpainted	Excellent unpainted	Very Good	Excellent if Primed
Metal	Poor	Fairly good	Excellent	Excellent unpainted	Excellent unpainted	Very Good	Excellent
Painted Surface	Excellent	Fairly good	Excellent	Fair	Fair	Very Good	Do not use
Masonry	Good	Fairly good	Very good	Excellent unpainted	Excellent unpainted	Very Good	Excellent if primed

Types of Sandpaper And Their Uses

JOB DESCRIPTION	TYPE WORK	GARNET, ALUMINUM OXIDE, OR SILICONE CARBIDE		EMERY CLOTH	FLINT
		Grit	Series		
Wet sanding, for high satin finish. Also for wet sanding lacquer and varnish topcoats.	Ultra Light	600			
		500			
		400	10/0		
		360			
Wet and dry sanding finishing undercoats. No sanding marks visible.	Very Light	280	8/0		(Dry only) Extra Fine
		248	7/0		
		220	6/0		
Wet and dry final sanding of wood and old paint	Light	180	5/0	3	(Dry only) Fine
		150	4/0	2	
		120	3/0		
General wood sanding, initial smoothing of paint and plaster.	Medium	100	2/0	0, 1/2	(Dry only) Medium
		80	0	1	
		60	1/2	1 1/2	
General rough wood sanding.	Heavy	50	1	2	Coarse
		40	1 1/2	2 1/2	
		36	2		
Sanding with high-speed, heavy machinery only.	Ultra Heavy	30	2 1/2	3	Extra coarse
		24	3		
		20	3 1/2		
		16	4		
		12	4 1/2		