

# Polygood® Adhesives Matrix

Applications	Adhesive Type	Working / Pot Life	Handling / Fixture Time	Full Cure Time	Example (Brand)	Usage Notes	Precautions
Panel-to-panel, mitered or rebate joints	Acrylic Adhesive	10–15 min	20–30 min	24 h	SignFix 20, Acrifix 116	Industry standard for seam joining; light abrade, clean with IMS, apply adhesive; Some acrylic adhesives cure to a rigid, brittle seam; therefore, additional structural support is recommended for load-bearing or flexing assemblies.	Thorough joint/seam preparation is key to a strong, clean bond and prevents unnecessary oversanding later.
Full-face lamination (panel -on-panel; panel→ substrates (MDF, ply, gypsum, walls)	Polyurethane (PU)	20–40 min	1–2 h	24 h	Generic PU laminating adhesive	Long open time, easy to spread, gap-filling (slight foaming compensates unevenness); performs well outdoors	Watch for foaming on edges; needs good clamping; edge lines can show yellow-brown
Bedding countertops & panels	MS-Polymer	20–40 min skin	6–12 h	24–48 h	Ultrabond, Sikaflex®-552 AT	Elastic, durable bonding; UV- and weather-resistant; gap-filling without foaming; absorbs vibration;	Needs surface abrasion & cleaning; humidity curing (slower in thick beads); Not polishable; unsuitable for rigid panel-to-panel seams; lower tensile strength vs. acrylic/PU;
Bedding countertops & panels (flexible bond to substrate, ideal in areas with movement)	Silicone	5–15 min skin	6–12 h	24–48 h	General construction silicone	Flexible bedding adhesive for countertops, panels, splashbacks, and vanities. Accommodates thermal expansion and substrate movement. Easy to apply, stays elastic after cure.	Not polishable; always leaves a visible bead. Low mechanical strength; unsuitable for structural or load-bearing seams.
Decorative translucent non-structural applications where seam transparency is important	UV-curable methacrylate adhesive	Unlimited (until UV) 1–5 min under UV 10–30 min	1–5 min under UV	10–30 min	ACRIFIX® 1R 0192 (UV-curing adhesive)	Apply to clean, dry, well-fitted edges .Cure under UV lamp or strong UV light (320–400 nm) until fully hardened. Produces a crystal-clear, rigid seam suitable for decorative, non-load joints.	Not suitable for structural or flexing joints (risk of cracking). Avoid skin/eye contact; handle with gloves and use in ventilated area (reactive acrylates can irritate). Store in dark, cool place as product is light-sensitive.

