

TECBOND

. . the power to perform

**POWER
ADHESIVES**

DATA SHEET

Shaped Hotmelt Adhesive

Power Adhesives, the world's leading shaped hotmelt adhesive specialist, manufacture the largest range of high quality, competitively priced shaped hotmelt adhesive, for exclusive use in our industrial glue guns.

We only manufacture high performance hotmelt adhesive formulations suitable for many industrial uses.

These adhesives can be grouped into three chemical types:

EVA (Ethylene Vinyl Acetate),

PA (Polyamide) and SPS (Semi-Pressure-Sensitive) adhesive.

EVA is the most widely used hotmelt adhesive and is suitable to bond a vast range of substrates, including carton board, soft wood, some plastics, light gauge metals, ceramics and fabrics.

Polyamide adhesives are suitable for applications where a bond needs to withstand high and low temperatures. They are more chemically resistant than EVA adhesives and are often used in the electronics and automotive industries.

Semi-Pressure-Sensitive adhesives maintain a high surface tack for up to 6 minutes. They are used primarily with spray systems, such as the **TEC 6300** pneumatic tool. They are ideal for covering larger areas and for use on heat sensitive materials.



Quality & Reliability: **TECBOND** adhesives are manufactured to exact tolerances, which vary according to the formulation. The size of the cartridge is critical to the safe & reliable operation of the **TEC** glue guns. Using non-standard adhesives will create problems in these areas



To make it easy to identify and trace our high performance **TECBOND** adhesive, the sticks and slugs are printed with the formulation reference and manufacturing batch number.

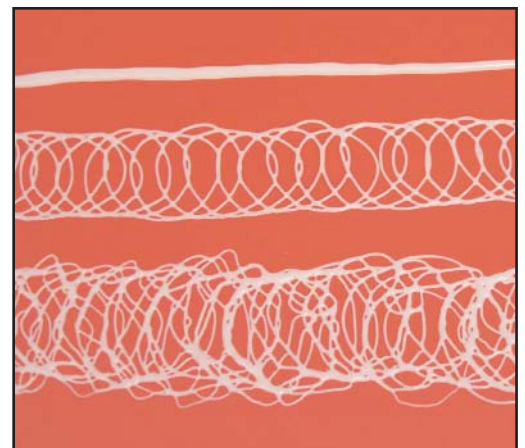
Application Methods

Power Adhesives offer both bead and dot application systems, as well as a spray system.

BEAD/DOT: A continuous bead of molten adhesive is extruded from the glue gun, allowing the operator complete control over the spread, pattern and volume. It can also be applied in dot or puddle form

SPRAY: Molten adhesive is mixed with air as it leaves the gun nozzle, spraying adhesive onto the work surface. This method has definite advantages for some applications:

- It is more economical because less adhesive is used
- The adhesive can be spread over a wider area.
- It is suitable for heat sensitive materials that can be damaged by bead/dot application.



**TECBOND QUALITY GIVES RELIABLE BONDING SOLUTIONS,
DURABILITY, SAFETY AND EFFICIENCY**

CHOOSING A HOTMELT.

With over 50 formulations to choose from, there is almost certainly a **TECBOND** adhesive solution for your application. However, it is important to consider certain factors when making your choice:



1. What are the materials being bonded?

What is the actual material the adhesive is bonding to? Is it painted, varnished, wax coated, etc? If plastic, does it contain plasticisers and, if so, what type?

2. Temperature resistances?

What is the maximum and minimum temperature the bond will need to withstand in use and in transit?

3. Chemical resistances? Does the bond require resistance to oil, washing, sunlight, sterilisation?

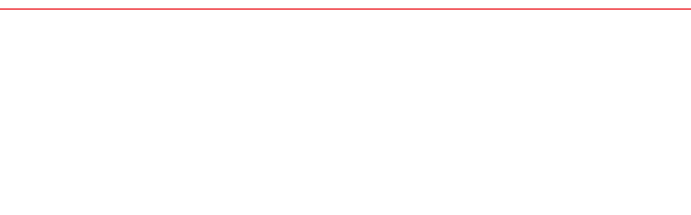
4. What viscosity do I need? Does the adhesive need to be high in viscosity to fill a gap or low in viscosity to minimise bond thickness?

5. Open time? How much working time is needed before parts are assembled? The open time of a hotmelt can be as fast as 2-3 seconds or up to 6 minutes.

To give you an idea of the versatility of our range, the table below shows a variety of glue formulations and how well they perform on certain substrates. For example, if you were looking to bond PVC to Aluminium you will see that **TECBOND 5** has a good bond on both these materials and therefore would be worth testing.

	Open time	Colour	ABS	LDPE	HDPE	Polycarbonate	Polypropylene	Polystyrene	PVC	Glass reinforced plastic	Aluminium	Stainless steel	Expanded polystyrene	SOFT WOOD	HARD WOOD	GLASS	CARDBOARD	PU FOAM
1X/12	Med	PA	P	P	P	P	P	F	P	G	F	F	F	G	G	F	G	P
1X/43	Med	PA	P	P	P	P	P	G	F	G	F	F	F	G	G	F	G	P
5/43	Med	PA	G	F	P	P	P	G	G	G	G	G	F	G	G	F	G	P
14	Fast	PA	P	P	P	P	P	F	P	F	G	G	F	P	P	F	VG	P
23	Long	PA	F	F	P	P	P	G	P	F	G	G	G	VG	VG	P	G	F
213/12	Long	PA	P	P	P	P	P	G	G	F	F	G	G	F	F	P	G	F
213/43	Long	PA	P	P	P	P	P	G	G	F	F	G	G	F	F	P	G	F
214	Fast	PA	P	P	P	P	P	G	P	P	P	P	G	P	P	P	VG	P
232	Med	C	P	P	P	P	P	G	P	P	P	P	VG	F	F	G	G	F
240	Med	C	P	P	P	P	P	G	F	F	F	F	G	F	F	G	G	F
260/12	Long	PA	G	P	P	P	P	G	F	G	G	G	G	VG	VG	G	G	F
260/43	Long	PA	G	G	P	P	P	G	G	G	G	G	G	VG	VG	G	G	F
265	Long	A	G	G	G	G	P	G	G	G	G	F	G	G	G	G	G	F
267	Long	PA	F	G	G	G	G	G	G	G	G	G	G	G	G	F	G	G
269	Long	A	F	F	F	F	F	G	G	G	G	G	G	G	G	F	G	G
342	Fast	OW	P	P	P	P	P	G	P	P	P	P	VG	VG	P	P	VG	P
410	Long	OW	P	P	P	P	G	P	P	P	F	F	F	P	P	P	F	P
420	V long	OW	P	F	P	P	F	G	F	G	F	G	VG	G	F	F	G	F
430	V Long	OW	P	F	P	P	G	G	G	G	G	G	G	G	F	F	G	F
1942/12	Long	A	P	P	P	P	P	G	F	F	G	P	F	VG	G	F	G	F
1942/43	Long	A	P	P	P	G	P	G	F	F	G	F	F	VG	G	F	G	F
6002	Fast	PA	P	P	P	P	P	P	P	P	P	P	F	P	P	P	VG	P
LM44	Med	OW	P	P	P	F	P	P	P	G	G	P	G	G	P	P	VG	P

VG = very good G = good F = fair P = poor
 A = amber PA = pale amber OW = off white C = clear



Please visit our website: www.poweradhesives.com