

Flexible Adhesives

Permabond manufactures flexible adhesives to meet the growing demands of industrial engineers. Modified Epoxies and MS Polymers offer flexibility and each provides unique benefits. The flexibility combined with low shrinkage make them ideal for bonding thin substrates with no read-through or witness marks and for potting without exerting stress on sensitive components.

Modified Epoxies (MT)

Permabond Modified Epoxies are two component hybrid technology adhesives that cure at ambient temperature. Products are available in 10:1 and 2:1 dual cartridges for dispensing through static mix tips. The range includes fast-setting products as well as slow curing grades to suit production line requirements.

MS Polymers (MS)

Permabond MS Polymers are single component, hybrid technology adhesives that moisture cure at ambient temperature. The high elongation and flexible nature of these strong bonds meet the demands of stress from impact, peel and expansion that can occur when bonding dissimilar materials. They have excellent environmental resistance and remain very flexible.

Permabond MS polymers and Modified Epoxies form strong bonds to:

▶ Composites ▶ Metals ▶ Wood ▶ FRP ▶ Glass ▶ Plastics ▶ Concrete ▶ Masonry ▶ Brick ▶ Stone

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Benefits of Permabond MS Polymers and Modified Epoxies include:

- ▶ Paintable
- ▶ Non-corrosive
- ▶ Fast Tack Free Time
- ▶ Adhesion to a Variety of Substrates
- ▶ No primer needed
- ▶ Weather Resistant - No Cracking or Splitting
- ▶ Ease of Application - Use in Most Weather Conditions

Permabond Flexible Adhesives Comparison Chart

This table represents a selection of the complete range of Permabond adhesives. For more detailed technical information and product Safety Data Sheets, visit permabond.com. To discuss your specific application requirements, please call Permabond and our technical advisors will recommend the best adhesive for you or discuss the development of a new grade or product modification to meet your technical requirements.

Description	Product	Appearance	Viscosity cP (mPa.s)	Cure Mechanism	Elongation	Hardness
Single component MS Polymers. Very soft and flexible, low shrinkage, and low read through. Ideal for exterior applications. Cure rate is approximate depending on humidity, temperature and depth.	MS359 Grey	Grey	Non-Sag	Single component, 15 min skin over time Cure rate 5mm / 24 hrs	250%	50 Shore A
	MS359 A Grey	Grey	Self-Levelling	Single component, 15 min skin over time Cure rate 3-4mm / 24 hrs	135%	45 Shore A
	MS359 Clear	Transparent	Non-Sag	Single component, 15 min skin over time Cure rate 4mm / 24 hrs	90%	45 Shore A
Two component Modified Epoxies. Soft and flexible with low shrinkage and low read through. Excellent potting compound for sensitive electronic components, low shrinkage provides less stress on sensitive components. Faster set time than MS Polymers	MT382	Charcoal Black	Self-Levelling	2:1 mix ratio, 20- 50 min pot life Handling Strength ≤ 2 hrs	175%	70 Shore A
	MT3821	Black	Thixotropic Paste	2:1 mix ratio, 10-20 min pot life Handling Strength ≤ 90 mins	125%	70 Shore A
	MT3809	Black	Self-Levelling	10:1 mix ratio, 10-12 min pot life Handling Strength ≤ 30 mins	150%	80 Shore A

For full technical information, please refer to the TDS (Technical Data Sheet)

Permabond® Technologies

Anaerobics

Thread lockers, Thread sealants, FIP Gasketmakers, Retaining Compounds

Cyanoacrylates

Instant adhesives, for rapid bonding of metals, plastics, rubber, and more.

Epoxies

Two-part (ET), Single-part (ES), and Modified Technology (MT) grades are available.

MS-Polymers

Single-part, moisture-curing, flexible sealants

Polyurethanes

Two-part room temperature curing adhesives

Toughened Acrylics

Rapid curing, high strength structural adhesives

UV Light Cured Adhesives

For glass, plastic, and metal with dual cure options.



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