



Araldite[®] 2000

General Bonding Adhesives

HUNTSMAN

Araldite® 2000

Structural Adhesives



Properties and Performance

The data below indicates the detailed properties and performance of each product. This data was obtained following recommended pre-treatment of substrates.

Ferrous Metals and Aluminum
Copper

Zinc and Galvanized Metal

GRP/SMC/GRE/
Thermoset Composites

ABS/PVC

Acrylics/
Polycarbonate

		Ferrous Metals and Aluminum	Copper	Zinc and Galvanized Metal	GRP/SMC/GRE/ Thermoset Composites	ABS/PVC	Acrylics/ Polycarbonate
2010	A toughened, fast cure epoxy ideal for metal bonding	●	●	◐	◐		
2011	A multi-purpose epoxy with long working life	●	●	●	◐		◐
2012	A fast cure, multi-purpose epoxy	●	●	●			
2013	A metal colored epoxy paste, suitable for use on vertical applications	●	●	●	◐		
2014	A gray epoxy paste offering high chemical and temperature resistance	●	●	◐	◐		
2015	A toughened epoxy paste ideal for GRP, SMC and dissimilar substrates	●	●	◐	●		
2021	A rapid curing, toughened multi-purpose methacrylate	●	◐		◐	●	●
2022	A toughened, resilient methacrylate for bonding thermoplastics	◐	◐		●	●	●
2024	A rapid curing, toughened methacrylate for bonding thermoplastics and composites	◐	◐		●	●	◐
2026	A transparent flexible polyurethane for bonding plastics and glass	◐	◐		◐	●	●
2027	A polyurethane paste ideal for SMC and GRP	◐			●		◐
2040	A flexible polyurethane ideal for bonding thermoplastics	◐			●	●	●
2041	A high strength polyurethane ideal for bonding a wide variety of plastics	◐			●	●	◐
2042	A fast setting, high strength polyurethane ideal for bonding a wide variety of plastics	◐			●	●	◐
2043	An ultra fast setting epoxy suitable for bonding a wide variety of substrates	●	◐	◐	◐	◐	

Polyamides/Polystyrene Foams/
 Polyurethane Foams
 Rubbers
 Glass/Quartz/
 Precious Stones
 Ceramics
 Wood

						Usable life of adhesives 73°F		Time required at 73°F to reach		Time required at 140°F to reach	Strength at 73°F at full cure	
						In mixer nozzle	100gms of mix	Light handling strength (150 psi)	50% of final shear strength	50% of final shear strength	Force per unit area (psi) <small>(Lap shear strength on aluminum at 73°F)</small>	Force per unit width (pli) <small>(Peel strength on aluminum at 73°F)</small>
2010		◐	◐	●	◐	10 mins	-	30 mins	3 hrs	25 mins	3300	46
2011	●	◐	◐	●	●	1¼ hrs	1½ hrs	7 hrs	10 hrs	45 mins	2700	29
2012		◐	◐	◐	●	4 mins	5 mins	20 mins	1¼ hrs	25 mins	2700	31
2013	◐	◐			◐	1¼ hrs	1 hr	4 hrs	10 hrs	40 mins	2600	23
2014				◐	◐	40 mins	40 mins	3½ hrs	5 hrs	25 mins	2600	17
2015		◐		◐		40 mins	40 mins	4 hrs	10 hrs	40 mins	2400	29
2021	●	◐	◐	◐		3 mins	-	8 mins	20 mins	-	3200	63
2022	◐	◐	◐	◐		10 mins	-	18 mins	30 mins	-	3600	23
2024	◐	◐				3 mins	-	10 mins	15 mins	-	2300	29
2026	◐	◐	●			5 mins	-	1 hr	4 hrs	30 mins	3000	29
2027	◐	◐				8 mins	-	1½ hrs	10 hrs	40 mins	2000	46
2040	●	●				15 mins	20 mins	10 hrs	24 hrs	2 hrs	1700	-
2041	◐	◐				12 mins	15 mins	4 hrs	16 hrs	2 hrs	2800	-
2042	◐	◐				2½ mins	3 mins	1 hr	6 hrs	1 hr	2800	-
2043		◐	◐	◐	●	1 min	1½ mins	5 mins	1 hr	-	3100	-

	Service temperature	Resistance properties			Pack sizes available		Mix properties	
	Typical Tg*/ Maximum Use Temperature	Chemical	Water	Impact	Cartridges	Bulk Kits	Color	Mix Ratio (by vol.)
2010	105/175	◐	◐	●	50/200ml	5 gal. pails	Pale Yellow	1:1
2011	110/175	○	○	●	30/50/200ml	qt. kits/5 gal. pails/drums	Amber/Transparent	1:1
2012	105/175	◐	○	○	30/50/200ml	qt. kits/5 gal. pails	Pale Yellow	1:1
2013	110/160	●	◐	○	50/200ml	qt. kits/5 gal. pails	Metallic Gray	1:1
2014	185/285	●	●	○	50/200ml	qt. kits/5 gal. pails	Dark Gray	2:1
2015	150/212	◐	◐	◐	50/200ml	qt. kits/5 gal. pails	Tan	1:1
2021	150/230	◐	◐	●	50/400ml	5 gal. pails	Yellow	1:1
2022	110/212	●	◐	●	50/400ml		Yellow	1:1
2024	105/212	◐	◐	●	37.5/380ml		Blue-Green	10:1
2026	flexible	◐	◐	◐	50/200ml	5 gal. pails	Clear/Transparent	1:1
2027	77/140	○	◐	◐	50/200ml	5 gal. pails	Beige	1:1
2040	flexible	○	○	●	50/200ml	qt. kits/5 gal. pails/drums	Gray	1:1
2041	flexible	○	◐	●	50/200ml	5 gal. pails	Red	1:1
2042	flexible	○	◐	●	50/200ml	5 gal. pails	Red	1:1
2043	flexible	◐	◐	◐	30/50ml	5 gal. pails	Pale Yellow/Transparent	1:1



200ml Pneumatic Gun



50ml Manual Gun



Typical working pack

* Tg is the maximum temperature at which full strength and E-modulus will be maintained.

Selecting an Araldite® 2000 Structural Adhesive

The 9 key questions below highlight potential bonding solutions for some of the principal manufacturing fastening requirements. For further advice please contact your local technical sales engineer.

Key Questions		Epoxy	Methacrylate	Polyurethane
		Load-bearing adhesives good for metals and composites	Fast setting and resilient for composites, thermoplastics and metals	Flexible adhesive for composites and certain thermoplastics
1	Do you require a fast cure adhesive?	2010/2012/2043	2021/2022/2024	2026/2027/2040/ 2041/2042
2	Do you have large areas for bonding and/or require a long working time?	2011/2013/ 2014/2015	-	-
3	Do you require the ability to bond different substrates ?	2010/2011/ 2012/2015	2021/2022/2024	2027
4	Do you require high toughness ?	2010/2015	2021/2022/2024	2027/2040/ 2041/2042
5	Do you require chemical resistance ?	2014	2021/2022	-
6	Do you require performance at high temperature ?	2014/2015	2021/2022/2024	-
7	Do you require an adhesive for gap filling or vertical applications ?	2013/2014/2015	2021/2022/2024	2027/2041/2042
8	Do you require a flexible adhesive ?	2043	-	2026/2040/ 2041/2042
9	Do you require a transparent adhesive?	2011/2043	-	2026

The Araldite 2000 structural adhesives range includes load-bearing adhesives for bonding metals and composites, resilient and flexible adhesives for bonding thermoplastics and combinations of materials, slow cure adhesives for large area application, adhesives designed to give results in minutes, adhesives that are resistant to high temperatures or chemicals, paste adhesives for gap filling or vertical applications, transparent adhesives for bonding glass and other transparent substrates and rapid cure multi-purpose adhesives.

Araldite® Adhesives: Bonding virtually anything to anything

- Araldite 2000 structural adhesives bond a wide variety of materials including plastics, composites, metals and glass.
- The Araldite 2000 range of 15 adhesives offers high performance from epoxy, polyurethane and methacrylate technologies.
- Araldite 2000 structural adhesives are continually updated to meet the new demands of innovative designs.

The Araldite 2000 cartridge range

The **Araldite 2000** cartridge system stores, mixes and dispenses the adhesive and hardener as a one-component product. Lightweight, available in a variety of sizes and operable with both pneumatic and manual guns, it allows the user to deliver a measured quantity of adhesive with ease, accuracy and minimum waste.



Araldite 2000 cartridge range

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