

Araldite® 2000

General Bonding Adhesives



Araldite® 2000

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.

following re	commended pre-treatment of substrates.	and Aurikius	Colos	Tinc and Call	CRR/SMOSE C	ABSIPUC	ACHICS ADONAL
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 coloured epoxy paste, suitable for use on vertical applications						
2014	A grey epoxy paste offering high chemical and temperature resistance						
2015	A toughened epoxy paste ideal for GRP, SMC and dissimilar substrates						
2017	A flexible epoxy with rapid cure						
2018	A flexible polyurethane ideal for bonding thermoplastics						
2020	A transparent epoxy ideal for glass or ceramics bonding						
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						







		⟨° [©]	insl				of adhesives °C	Time re at 23°C		Time required at 60°C to reach		n at 23°C I cure
	Polytridesh	Rubbers Rubbers	Glass Chart	il ceramics	Moog	II note house	LOOPE OF THE	Light-farding	Control of the contro	to of the state of	Force per unit area (N/mm²) (Lap shear strength on aluminium at 23°C)	Force per unit width (N/mm) (Peel strength on aluminium at 23°C)
2010						10 mins	-	30 mins	3 hrs	25 mins	23	8
2011						1 ³ / ₄ hrs	1 ¹ / ₂ hrs	7 hrs	10 hrs	45 mins	19	5
2012						4 mins	5 mins	20 mins	1 ³ / ₄ hrs	25 mins	19	5 ¹ / ₂
2013					•	1 ¹ / ₄ hrs	1 hr	4 hrs	10 hrs	40 mins	18	4
2014						40 mins	40 mins	3 ¹ / ₂ hrs	5 hrs	25 mins	18	3
2015						40 mins	40 mins	4 hrs	10 hrs	40 mins	17	5
2017						5 mins	-	18 mins	4 hrs	30 mins	14	10
2018						40 mins	1	4 hrs	16 hrs	30 mins	7	4
2020						-	45 mins	16 hrs	24 hrs	2 ¹ / ₄ hrs	17	<1
2021						3 mins	ı	8 mins	20 mins	1	22	11
2022						10 mins	ı	18 mins	30 mins	-	25	4
2024						3 mins	-	10 mins	15 mins	-	16	5
2026						5 mins	-	1 hr	4 hrs	30 mins	21	5
2027						8 mins	-	1 ¹ / ₂ hrs	10 hrs	40 mins	14	8

	Service temperature		Resistance properties		Pack sizes			
		Chemical	****	Nage	indet indet	catidg [£]	NOTES	Wester to
2010	40/80					200ml		A279
2011	45/80	0	0	0		50/200ml 300g tube	2kg	A230
2012	40/80			0	0	50/200ml 300g tube	2kg	A231
2013	45/70		•	•	0	50/200/ 400ml	2kg	A232
2014	85/140				0	50/200ml	2kg	A233
2015	65/100					50/200/ 400ml	2kg	A234
2017	flexible	\bigcirc		\bigcirc		200ml		A253
2018	flexible /40	0	0	0		200ml		A280
2020	40/80				\bigcirc		500g	A282
2021	65/110					50/400ml		A297
2022	45/100					50/400ml		A298
2024	40/100					37.5/ 380ml		A437
2026	flexible		0			50/200ml		A441
2027	25/60	0	0			200/ 400ml		A442



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 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.

		Ероху	Methacrylate	Polyurethane
Key	Questions	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 multi-purpose adhesive with a rapid cure?	2012	2021/2024	-
2	Do you require a multi-purpose adhesive with a long working life?	2011	-	-
3	Do you require a fast cure adhesive?	2010/ 2012 /2017	2021 /2022/2024	2026/2027
4	Do you have large areas for bonding and/or require a long working time?	2011/2020	-	2018
5	Do you require high toughness and the ability to bond different substrates?	2010/ 2015	2021/ 2022 /2024	-
6	Do you require chemical resistance or performance at high temperatures?	2013/ 2014	2021/ 2022	-
7	Do you require an adhesive for gap filling or vertical applications?	2013 /2014/2015	2021/2022/2024	2027
8	Do you require a flexible adhesive?	2017	-	2018/2026
9	Do you require a transparent adhesive?	2020	-	2026

- The Araldite 2000 range has bonding solutions for 95% of all structural bonding applications.
- The 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®: Bonding virtually anything to anything

- The Araldite 2000 structural adhesives range is continually updated to meet the new demands of innovative design.
- The Araldite 2000 range of 14 adhesives, offers high performance from epoxy, polyurethane and methacrylate technologies.
- The Araldite 2000 range is capable of bonding more than 95% of all plastics, composites, metals and glass.

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 wastage.



Araldite 2000 cartridge range

Handling Precautions

Caution

Huntsman Advanced Materials products are generally quite harmless to handle provided that certain precautions normally taken when handling chemicals are observed. The uncured materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils, and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The wearing of impervious rubber or plastic gloves will normally be necessary; likewise the use of eye protection. The skin should be thoroughly cleansed at the end of each working period by washing with soap and warm water. The use of solvents is to be avoided. Disposable paper towels – not cloth towels – should be used to dry the skin. The work area should be well ventilated. These precautions are described in greater detail in Manual No. 24264/e Hygienic Precautions for Handling Plastic Products of Huntsman Advanced Materials and in the Material Safety Data Sheets for the individual products. These publications are available on request and should be referred to for fuller information.

All recommendations for use of our products, whether given by us in writing, verbally, or to be implied from the results of tests carried out by us, are based on the current state of our knowledge. Notwithstanding any such recommendations the Buyer shall remain responsible for satisfying himself that the products as supplied by us are suitable for his intended process or proses. Since we cannot control the application, use or processing of the products, we cannot accept responsibility therefore. The Buyer shall ensure that the intended use of the products will not infringe any third party's intellectual property rights. We warrant that our products are free from defects in accordance with and subject to our general conditions of supply.

Mandatory and recommended industrial hygiene procedures should be followed whenever our products are being handled and processed. For additional information, please consult the corresponding product safety data sheets.

Distributed by:

Huntsman Advanced Materials

Duxford

Cambridge CB2 4QA

UK

Tel: +44 (0)1223 493 000 Fax: +44 (0)1223 493 002

www.araldite.com

