

Araldite 2000 Range: Properties and Performance

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.



Stock Items

Product	Description	Substrate											Usable life of adhesives at 23°C		Time required at 23°C to reach		Time required at 60°C to reach		Strength at 23°C or full cure	
		Ferrous Metals and Aluminium	Copper	Zinc and Galvanised Metal	GRP/SMC/GRE/Thermoset Composites	ABS/PVC	Acrylics/Polycarbonate	Polyamide/Polyethylene Foams/Polyurethane Foams	Rubbers	Glass/Quartz/Precious Stones	Ceramics	Wood	30 min wet	100% of max	100% of max (100% of max)	50% of max (50% of max)	100% of max (100% of max)	Force per unit area (N/mm²) Lap shear strength at 23°C	Force per unit area (N/mm²) Tensile strength at 23°C	
2014	A grey epoxy paste offering high chemical and temperature resistance	●	●	●	●						●	●	40 mins	40 mins	3 1/2 hrs	5 hrs	25 mins	18	3	
2015	A toughened epoxy paste ideal for GRP, SMC and dissimilar substrates	●	●	●	●			●		●		40 mins	40 mins	4 hrs	10 hrs	40 mins	17	5		

Indent Items

Excellent ● Good ◐ Moderate ○

Product	Description	Substrate											Usable life of adhesives at 23°C		Time required at 23°C to reach		Time required at 60°C to reach		Strength at 23°C or full cure	
		Ferrous Metals and Aluminium	Copper	Zinc and Galvanised Metal	GRP/SMC/GRE/Thermoset Composites	ABS/PVC	Acrylics/Polycarbonate	Polyamide/Polyethylene Foams/Polyurethane Foams	Rubbers	Glass/Quartz/Precious Stones	Ceramics	Wood	30 min wet	100% of max	100% of max (100% of max)	50% of max (50% of max)	100% of max (100% of max)	Force per unit area (N/mm²) Lap shear strength at 23°C	Force per unit area (N/mm²) Tensile strength at 23°C	
2010	A toughened, fast cure epoxy ideal for metal bonding	●	●	◐	◐			◐	◐	●	◐	10 mins	-	30 mins	3 hrs	25 mins	23	8		
2011	A multi-purpose epoxy with long working life	●	●	●	◐		◐	●	◐	●	●	1 1/4 hrs	1 1/2 hrs	7 hrs	10 hrs	45 mins	19	5		
2012	A fast cure, multi-purpose epoxy	●	●	●				◐	◐	◐	●	4 mins	5 mins	20 mins	1 1/4 hrs	25 mins	19	5 1/2		
2013	A metal coloured epoxy paste, suitable for use on vertical applications	●	●	●	◐		◐	◐			◐	1 1/4 hrs	1 hr	4 hrs	10 hrs	40 mins	18	4		
2017	A flexible epoxy with rapid cure	◐	◐	◐	◐	●		◐			◐	5 mins	-	18 mins	4 hrs	30 mins	14	10		
2018	A flexible polyurethane ideal for bonding thermoplastics	◐			●	●	●	●				40 mins	-	4 hrs	16 hrs	30 mins	7	4		
2020	A transparent epoxy ideal for glass or ceramics bonding	●	◐		◐				●	●		-	45 mins	16 hrs	24 hrs	2 1/4 hrs	17	<1		
2021	A rapid curing, toughened multi-purpose methacrylate	●	◐		◐	●	●	●	◐	◐	◐	3 mins	-	8 mins	20 mins	-	22	11		
2022	A toughened, resilient methacrylate for bonding thermoplastics	◐	◐		●	●	●	◐	◐	◐	◐	10 mins	-	18 mins	30 mins	-	25	4		
2024	A rapid curing, toughened methacrylate for bonding thermoplastics and composites	◐	◐		●	●	◐	◐	◐			3 mins	-	10 mins	15 mins	-	16	5		
2026	A transparent flexible polyurethane for bonding plastics and glass	◐	◐		◐	●	●	◐	◐	●		5 mins	-	1 hr	4 hrs	30 mins	21	5		
2027	A polyurethane paste ideal for SMC and GRP	◐			●		◐	◐	◐			8 mins	-	1 1/2 hrs	10 hrs	40 mins	14	8		

Araldite 2000 Range

For data sheets click on product name below

Designers in every sphere of industry increasingly find that bonding with Araldite provides the answer to production problems posed by new materials, new uses of existing materials, and new techniques and manufacturing methods.

Product	Typical usable life 100gms at 23°C (mins)	Typical lap shear strength at 23°C (sand blasted aluminium) (N/mm²)	Flexibility / toughness	Chemical resistance	Water / humidity resistance	Temperature resistance (Tg) (°C)	Appearance of resin / hardener (mixed)
Araldite®			Impact				Translucent /

2010	8	23	resistant	Good	Good	Ca 40°C	yellow (yellow)
Araldite® 2011	120	27	Rigid	Good	Good		Yellow / translucent (yellow)
Araldite® 2012	4	19	Rigid	Good	Good	Ca 40°C	Translucent / yellow (yellow)
Araldite® 2013	65	18	Rigid	Good	Good	Ca 45°C	Grey / beige (grey)
Araldite® 2014	40	19	Rigid	Excellent	Excellent	Ca 85°C	Beige / grey (grey)
Araldite® 2015	40	18	Impact resistant	Good	Good	Ca 65°C	Beige / beige (beige)