

Key questions

Adhesives	Epoxy	Methacrylate	Polyurethane	Silane modified polymers
	Load-bearing adhesives good for metals and composites	Fast setting and resilient for composites, thermoplastics and metals	Flexible adhesive for composites and certain thermoplastics	Elastic adhesive for indoor and outdoor applications
1. Do you require a multi-purpose adhesive with a rapid cure?	Araldite® 2012	Araldite® 2047	–	–
2. Do you require a multi-purpose adhesive with a long working life?	Araldite® 2011	–	Araldite® 2029	Araldite® 2060 Araldite® 2061
3. Do you require a fast cure adhesive?	Araldite® 2012	Araldite® 2021 Araldite® 2047	Araldite® 2028	–
4. Do you have large areas for bonding and/or require a long working time?	Araldite® 2013 Araldite® 2014-1 Araldite® 2031	–	Araldite® 2029 Araldite® 2018	–
5. Do you require high toughness and the ability to bond different substrates?	Araldite® 2015 Araldite® 2031	Araldite® 2022 Araldite® 2048 Araldite® 2047	Araldite® 2029	–
6. Do you require chemical resistance or performance at high temperatures?	Araldite® 2014-1	Araldite® 2052	–	–
7. Do you require an adhesive for gap filling or vertical applications?	Araldite® 2013 Araldite® 2014-1 Araldite® 2015 Araldite® 2031	Araldite® 2021 Araldite® 2022 Araldite® 2047 Araldite® 2048	Araldite® 2029	Araldite® 2060 Araldite® 2061
8. Do you require a flexible adhesive?	–	–	Araldite® 2018 Araldite® 2028 Araldite® 2045	Araldite® 2060 Araldite® 2061
9. Do you require a transparent adhesive?	–	–	Araldite® 2028	–

Huntsman Advanced Materials

We are a leading global supplier of synthetic and formulated polymer systems for customers requiring high-performance materials which outperform the properties, functionality and durability of traditional materials. Over 2 300 associates at 13 locations worldwide work to fulfill this promise day by day.

More than 9 000 companies around the world use Huntsman Advanced Materials technologies in key markets such as adhesives and inks, aerospace, automotive, coatings, construction, electronics, medical, marine, power transmission and distribution, sports equipment and wind power generation.

Markets

Structural bonding techniques play a pivotal role in today's engineering industries. As designers strive to bring light-weight and durable products to market in the quickest time possible, they are increasingly turning to industrial adhesives to solve complex design issues. Building on our 60 years heritage as pioneers in epoxy adhesive technology, Huntsman has developed a full range of adhesives to address many of the design issues engineers face on a daily basis.

Based on the four chemistries – epoxy, polyurethane, methacrylate and silane modified polymers, this complete range provides superior fastening and bonding solutions for plastic, metal and composite materials under the established Araldite® brand.

Global presence – 13 manufacturing sites



Distributed by

GA Lindberg ChemTech AB
08-7030200, Fax 08-7030248
www.galindberg.se mail@galindberg.se
Box 6044, 164 06 KISTA

HUNTSMAN

Enriching lives through innovation

More detailed information about these products can be found on our website:
www.araldite2000plus.com
For any other information, please send an e-mail to:
araldite2000plus@huntsman.com

Europe/Africa:
Huntsman Advanced Materials (Switzerland) GmbH
Klybeckstrasse 200
P.O. Box
4002 Basel
Switzerland
Tel. +41 61 299 11 11
Fax +41 61 299 11 12

India/Middle East:
Huntsman Advanced Materials (India) Pvt. Ltd.
5th Floor, Bldg. No. 10
Solitaire Corporate Park, 167
Guru Hargovindji Marg, Chakal, Andheri (East)
Mumbai – 400 093
India
Tel. + 91 22 4095 1556-60
Fax + 91 22 4095 1300/1400/1500

Asia/Pacific:
Huntsman Advanced Materials (Guangdong) Co., Ltd.
Rooms 4604 – 4608, Maxdo Center
8 Xing Yi Road
Shanghai, 200336
P.R. China
Tel. + 86 21 2208 7588
Fax + 86 21 2208 7511

Americas:
Huntsman Advanced Materials Americas Inc.
10003 Woodloch Forest Drive
The Woodlands
Texas 77380
USA
Tel. +1 888 564 9318
Fax +1 281 719 4047

Legal information
Araldite® is a registered trademark of Huntsman Corporation or an affiliate thereof in one or more, but not all, countries. Sales of the product described herein ("Product") are subject to the general terms and conditions of sale of either Huntsman Advanced Materials LLC, or its appropriate affiliate including without limitation Huntsman Advanced Materials (Europe) BVBA, Huntsman Advanced Materials Americas Inc., or Huntsman Advanced Materials (Hong Kong) Ltd. or Huntsman Advanced Materials (Guangdong) Ltd. ("Huntsman"). The following supercedes Buyer's documents. While the information and recommendations included in this publication are, to the best of Huntsman's knowledge, accurate as of the date of publication, NOTHING CONTAINED HEREIN IS TO BE CONSTRUED AS A REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT OF ANY INTELLECTUAL PROPERTY RIGHTS, OR WARRANTIES AS TO QUALITY OR CORRESPONDENCE WITH PRIOR DESCRIPTION OR SAMPLE, AND THE BUYER ASSUMES ALL RISK AND LIABILITY WHATSOEVER RESULTING FROM THE USE OF SUCH PRODUCT, WHETHER USED SINGLY OR IN COMBINATION WITH OTHER SUBSTANCES. No statements or recommendations made herein are to be construed as a representation about the suitability of any Product for the particular application of Buyer or user or as an inducement to infringe any patent or other intellectual property right. Data and results are based on controlled conditions and/or lab work. Buyer is responsible to determine the applicability of such information and recommendations and the suitability of any Product for its own particular purpose, and to ensure that its intended use of the Product does not infringe any intellectual property rights. The Product may be or become hazardous. Buyer should (i) obtain Material Safety Data Sheets and Technical Data Sheets from Huntsman containing detailed information on Product hazards and toxicity, together with proper shipping, handling and storage procedures for the Product, (ii) take all steps necessary to adequately inform, warn and familiarize its employees, agents, direct and indirect customers and contractors who may handle or be exposed to the Product of all hazards pertaining to and proper procedures for safe handling, use, storage, transportation and disposal of and exposure to the Product and (iii) comply with and ensure that its employees, agents, direct and indirect customers and contractors who may handle or be exposed to the Product comply with all safety information contained in the applicable Material Safety Data Sheets, Technical Data Sheets or other instructions provided by Huntsman and all applicable laws, regulations and standards relating to the handling, use, storage, distribution and disposal of and exposure to the Product. Please note that products may differ from country to country. If you have any queries, kindly contact your local Huntsman representative.

© 2010 Huntsman Corporation. All rights reserved.
Ref. No. AdMat Araldite 2000+ 03.10_EN_EU

HUNTSMAN

Enriching lives through innovation

Advanced Materials

Araldite®
Strength in bonding 2000+

Adhesives selector guide



Properties and performance

Conditions	Chemical type	Key features	Metals							Thermosets/composites				Thermoplastics					Miscellaneous substrates				Viscosity	Work time		Cure speed	Mechanical properties		Bond strength	Durability in			Colour (mixed)	Packaging						
			Mild steel	Stainless steel	Aluminium	Copper	Brass	Galvanized steel		GRP (UP)	GRP (EP)	CFRP	SMC	PVC	PA	ABS, ASA, SAN	PC	PMMA	Ceramic	Glass	Rubber	Wood		Pa-s	min		min	N/mm²		%	N/mm²	Water/humidity		Chemicals	Heat	50 ml	200ml	400ml	500ml	290 ml
Unit																						Pot life (100 g at 23 °C)		Cure time at 23 °C to LSS*** = 1 N/mm²	E-modulus at 23 °C	Elongation at break at 23 °C	LSS*** aluminium at 23 °C	Water/humidity	Chemicals	Heat		50 ml	200ml	400ml	500ml	290 ml	WP (2kg)			
Araldite® 2011	EP	> Multi purpose > Long working life > Low shrinkage	●●●	●●●	●●●	●●●	●●●	●●●	●●●	●●●	●●●	●●●	●	●●	●●●	●●	●	●●●	●●●	●●●	●●●	40	100	420	1900	9	26	●	●●	●●	yellow	○	○	○				○		
Araldite® 2012	EP	> Fast curing > General purpose > Low shrinkage	●●●	●●●	●●●	●●	●●●	●	●●●	●●●	●●	●●	●●	●	●●	●●	●	●●●	●●●	●	●●●	30	6	20	2520	4	18	●●	●●●	●●	yellow	○	○					○		
Araldite® 2013	EP	> Metal coloured paste > Suitable for vertical applications > Low shrinkage	●●●	●●●	●●●	●●	●●	●●●	●●●	●●	●●	●●●	●●●	●	●	●	●●	●●●	●●●	●	●●●	thixotropic	65	240	2530	1	18	●●	●●	●●	grey	○	○	○					○	
Araldite® 2014-1	EP	> Grey paste > High temperature and chemical resistance > Low shrinkage	●●●	●●●	●●●	●●	●●	●	●●●	●●●	●●	●●●	●●	●	●●	●	●	●●	●●●	●●	●●●	thixotropic	60	180	4000	1	19	●●●	●●●	●●●	grey	○	○	○						○
Araldite® 2015	EP	> Toughened paste > Ideal for GRP, SMC and dissimilar substrates > Low shrinkage	●●●	●●●	●●●	●●●	●●●	●	●●●	●●●	●●●	●●●	●●	●	●●	●●	●●	●●●	●●●	●●	●●●	thixotropic	35	240	2000	4	16	●●●	●●●	●●●	beige	○	○	○						○
Araldite® 2031	EP	> Thixotropic – non slumping > Toughened adhesive, resilient bond > Suitable for metal and composite bonding, good adhesion onto polyamides	●●	●●●	●●	●●●	●●●	●●	●●●	●●●	●●	●●●	●●	●●●	●●	●●	●	●●●	●●●	●●	●●●	thixotropic	60	360	1000	5	19	●●●	●●●	●●●	black	○		○						
Araldite® 2018	PUR	> Good UV stability > Ideal for bonding thermoplastics > Long working life	●●	●	●	●	●	●●	●●●	●●●	●●●	●●●	●●	●●	●●●	●●●	●●	●●	●●	●●●	●●	8	40	240	60	45	7	●●	●	●●	colourless		○							
Araldite® 2028	PUR	> Transparent > Fast curing > UV stable	●●	●●	●●	●	●	●●●	●●●	●●●	●●●	●●●	●●●	●●	●●●	●●●	●●	●●	●●	●●	●●	5	6	15	10	34	14	●	●	●●	trans-parent	○	○							
Araldite® 2029	PUR	> Medium open time > Designed to bond composites and metals > Adhesion to copper and brass	●●●	●●●	●●●	●●●	●●	●●●	●●●	●●●	●●●	●●	●●●	●●	●●●	●●●	●●●	●●	●●	●●	●●	thixotropic	40	240	580	47	25	●●	●●	●●●	grey	○		○						
Araldite® 2045	PUR	> Ideal for bonding thermoplastics and thermosets > Good flexibility > Gap filling properties	●●	●●	●●	●●	●●	●●	●●●	●●●	●●●	●●	●●●	●●	●●●	●●●	●●●	●●	●●	●●	●●	thixotropic	10	100	36	78	10	●	●	●●	beige	○		○						
Araldite® 2021	MMA	> Rapid curing > High peel strength > Multi purpose	●●●	●●●	●●●	●●	●	●●	●●●	●●	●●	●●	●●●	●●	●●	●●●	●●●	●●●	●●●	●●	●	thixotropic	3	8	2300	10	23	●●	●●	●●●	yellow	○		○						
Araldite® 2022	MMA	> Good sanding properties > Ideal for bonding thermoplastics	●●●	●●●	●●●	●●	●●	●●●	●●●	●●	●●	●●	●●●	●	●●●	●●●	●●●	●●●	●●	●●	●	thixotropic	10	18	2050	3	25	●●	●	●●●	yellow	○		○						
Araldite® 2047	MMA	> Gap filling > Requires minimal surface treatment	●●	●●●	●●	●●●	●●●	●●●	●●	●	●	●●	●●●	●	●●●	●●●	●●●	●●	●●	●●	●	thixotropic	5	5	850	32	12	●●	●●	●●	brown	○			○					
Araldite® 2048	MMA	> Tolerant to "less than ideal" pretreatment > Gap filling up to 8 mm > Tough flexible bonds for use in dynamic environment	●●	●●●	●●●	●●●	●●●	●●	●●	●●●	●●●	●●●	●●●	●	●●●	●●●	●●●	●●	●●	●●	●	thixotropic	10	15	360	91	24	●●	●	●●●	red	○			○					
Araldite® 2052	MMA	> Very high temperature and chemical resistance > Tolerant to "less than ideal" pretreatment > Thixotropic, non-sagging	●●	●●●	●●●	●●●	●●●	●	●	●	●	●	●●	●	●●●	●●	●●●	●●●	●●●	●	●	thixotropic	15	20	1550	5	25	●●	●●●	●●●	red				○					
Araldite® 2060	MS	> Elastic brilliant white adhesive for indoor and outdoor applications > Primerless adhesion on most substrates > Non-hazardous, does not contain isocyanate	●●●	●●●	●●●	●●●	●●●	●●●	●●●	●●●	●●●	●●●	●●	●●	●●●	●●●	●●	●●●	●●●	●●	●●●	thixotropic	15*	40**	1	300	1	●●●	●●	●●	white						○			
Araldite® 2061	MS	> Elastic black adhesive for indoor and outdoor applications > Primerless adhesion on most substrates > Non-hazardous, does not contain isocyanate	●●●	●●●	●●●	●●●	●●●	●●●	●●●	●●●	●●●	●●●	●●	●●	●●●	●●●	●●	●●●	●●●	●●	●●●	thixotropic	15*	40**	1	250	1	●●●	●●	●●	black						○			

EP: Epoxy adhesives
 PUR: Polyurethane adhesives
 MMA: Methacrylate adhesives
 MS: Silane modified polymers

* Skin formation time
 ** Tack free time
 *** LSS = Lap Shear Strength