Polyurethane & Epoxy Resins

SYSTEMS

alh-systems.co.uk

WHY CHOOSE US?

ALH Systems has an exceptional team of experienced chemists and engineers, capable of providing superior quality engineered chemical solutions.

Our extensive range of high quality products is unmatched in the industry, and suitable for a wide range of applications.

We have a proven track record of advising clients on the best applications method for their products, and our expert advice has helped our clients achieve unprecedented levels of success.

BESPOKE AND OFF THE SHELF RESINS

ADAPTABLE APPROACH TO DEVELOPMENT

HIGH QUALITY EPOXY AND POLYURETHANE RESINS

IN-HOUSE CHEMICAL ENGINEERING TEAM

SMALL BATCH TO LARGE SCALE FULFILMENT

DOWN PACKING AND TOLL MANUFACTURING

ISO 9001 AND 14001:2015 CERTIFIED

ENVIRONMENTAL TESTING FACILITIES

APPLICATIONS

ELECTRONICS & MANUFACTURING

- LED range
- General Potting
- RIM (Reaction Injection Moulding)
- Thermally Conductive
- Extreme Temperature
- Adhesives
- Duct Sealants
- Flame Retardant resins

TELECOMS

- Cabinet And Concrete Plinth Sealant
- Fibre Optic Sealants
- Pole Repair
- Air Block

CONSTRUCTION

- Light Rail Noise Reduction Solutions
- Expansion Joints
- Duct Sealants

IN HOUSE POTTING SOLUTIONS

Discover Our Versatile Resin Solutions

Tailored for Your Needs

Below, we've highlighted a selection of our mainstream resins to help you identify the ideal product for your application. This list is not exhaustive but serves as a glimpse into the diverse range of solutions we offer.

As a manufacturer, we specialise in customising products to meet your specific requirements.

We're here to ensure the resin fits your application perfectly.

Additionally, we provide a variety of packaging options to suit your operational needs.

Let us collaborate to deliver the exact product and solution you need.

ALH-Systems: Innovating for Your Success.

Group	Sub Group	Product	Chemistry	Colour	Mix Ratio by Volume	Mix Ratio by Weight	Operating Temperature (°C)	Mixed viscosity (mPas)	Pot Life @RT	Gel @RT	Hardness	Electric Strength (KV/mm)	Thermal Conductivity (W/mK)	Features	Approvals
Potting	General Purpose	**NP1003**	Epoxy	Black	**5.3:1**	10.1:1	-55 to 130	6000-8000	45-60 min	2.5-3.5 h	D80	15	0.9	Flame Retardant, Low Viscosity, High Gloss Finish	UL 94 V-0
Potting	General Purpose	**NP1003-NPF**	Epoxy	Black	**5.7:1**	10.1:1	-55 to 130	6000-8000	45-60 min	2.5-3.5 h	D80	15	0.9	General purpose, Retardant	Meets UL94-V0 Nonylphenol free
Potting	General Purpose	**NP1004**	PU	Black	**3.66:1**	4.23:1	-40 to 130	1500-3000	18-28 min	54-84 min	A90 D40	20	0.2	General Purpose, Low viscosity	
Potting	General Purpose	**NP1024**	PU	Red	**4:1**	4.72:1	-40 to 130	2000-3000	30 min	1-2 h	D50-55	15	>0.4	General purpose, Retardant	Meets UL94 V-0
Potting	High Thermal Conducitivity	**NP1025**	Epoxy	Grey	**7.3:1**	18:1	-40 to 180	2000-4000	90 min	5-7 h	D76	15	1.3	High Thermal, Conductivity, Low viscosity	No halogens
Potting	General Purpose	**NP1084**	PU``	Beige	**5.4:1**	7:1	-40 to 130	2500-3500	17-25 min	80-100 min	D45	20	0.9	Semi-rigid	Meets UL94-V0
Potting	Water Resistant	**NP1170**	PU	Transparent	**4.75:1**	4.3:1	-60 to 100	550	-	30-120 min	A12	15	0.2	Re-enterable, Flexible at -60^{c}	
Potting	Water Resistant	**NP1173**	PU	White	**6.8:1**	12.4:1	-60 to 100	10,000	5-18 min	80-140 min	A25-35	15	0.8	Shock Resistant	
Potting	Water Resistant	**NP1860**	PU	Beige	**4.19:1**	5.25:1	-40 to 155	2500	15-30 min	60-90 min	A85	15	0.75	High Temperature resistance, Flexible	
Potting	LED	**NP1436**	Epoxy	Clear	**1:1**	1.25:1	-40 to 125	3500	25 min	50 min	D55	15	0.2	Water Resistant, Slighty flexible, Light Tint & Good Clarity	
Potting	LED	**NP1482**	PU	Clear (Water white)	**1:1**	0.94:1	-40 to 120	300	10 min	16 min	A85	15	0.3	High Green Strength	
Potting	LED	**NP1484**	PU	Clear (Water white)	**1:1**	0.93:1	-40 to 120	400-800	-	11-18 min	A75-80	15	0.3	Low Viscosity, UV Stable	
Potting	Re-enterable	**NP2500**	PU	Transparent	**1:1**	0.92:1	-60 to 100	500	8-11 min	45-60 min	A16	18	0.25	Low Isocyanate	
Potting	High Thermal Conducitivity	**NP3005**	Epoxy	Grey	**5.7:1**	10.4:1	-55 to 150	5000-10,000	110-150 min	2.5-4 h	D80	-	4.5	Thermally Conductive, Aluminium Filled, Low Coefficient of Expansion	
Potting	Re-enterable	**NP5025**	PU	Transparent	**6.65:1**	6:1	-60 to 80	100-150	4-6h	5-7h	6-9 mm peneration	10	0.2	Long Pot Life	
Adhesive	General Purpose	**NP2001**	Epoxy	Clear	**1:1**	1.04:1	-20 to 60	10,000	-	4 min	D80	-	0.2	Rapid Cure, Clear Adhesive	
Adhesive	General Purpose	**NP2021**	Epoxy	Red	**1:1**	1.16:1	-20 to 60	21,000	-	25-45 min	D75	-	-	Toughened, Reduced Slump	
Adhesive	General Purpose	**NP2025**	Epoxy	Black	**1:1**	1.12:1	-20 to 60	12,000	3-5 min	7-10 min	D80	-	-	Nonylphenol Free	
Telecom		**Resin Pack 14B**	PU	Black	**1:1**	0.87:1	-40 to 120	200	-	5-10 min	A60-70	15	0.2	Rapid Demould time, Good Adhesion to Plastics	
Telecom		**Resin Pack 6C**	PU	Green	**6.45:1**	7:1	-40 to 120	3000	10 min	15-25 min	A60	-	-	Low Cost, Fast Cure	
Telecom		**Resin Pack 9B**	PU	Brown	**2.72:1**	2.43:1	-40 to 100	500	-	5-8 min	A40	-	-	Good Adhesion to Plastics	

ALH GROUP

ALH SYSTEMS LIMITED

+44 (0) 1373 858234
sales@alh-systems.co.uk
alh-systems.co.uk

1 Kingdom Avenue
Northacre Industrial Park
Westbury
Wiltshire
BA13 4WE