

LAKE COATINGS IS PROUD TO
INTRODUCE

 **VALYSIS**®

Validated Systems for Bespoke Formulations™



Lake
COATINGS

VALYSIS[®]

for epoxy systems

Applications include:



*Adhesives and
Sealants*



*Industrial
Coatings*



*Marine
Coatings*



*Protective
Coatings*



Flooring

VALYSIS[®]

proposition

Our Mission:

To provide tailor-made formulations and products by leveraging our extensive technical expertise and laboratory resources, to deliver solutions to support the diverse needs of the CASE industries.

- Validated systems; proven high quality raw materials for epoxy formulations from best-in-class producers.
- Innovative approach grounded in collaborative partnerships with suppliers and customers to develop bespoke formulations and deliver ultimate customer value.
- State of the art application and testing in our dedicated R&D laboratory.
- Decades of extensive experience and technological expertise in epoxy systems.

In addition to tailor-made solutions, we also offer a range of off-the-shelf epoxy products (including but not restricted to):

Epoxy Systems Products:

Name	Product Type	Product Description	Application
Valysis® CamCoat 2071	Epoxy Resin	Bis A	General Purpose liquid epoxy resin
Valysis® CamCoat 2101	Epoxy Resin	Bis A	Solvent-free epoxy resin for coatings and flooring
Valysis® R020 S28	Epoxy Resin	Bis A	Bis A medium viscosity epoxy resin gives good mechanical and chemical resistance once cured, also good pigment wetting and anti-setting properties.
Valysis® R030 1001X75	Epoxy Resin	Bis A resin diluted to 75% solids with xylene	General purpose epoxy resin at 75% solids in xylene
Valysis® R010 235	Epoxy Resin	Bis A / Bis F blend	Low-medium viscosity BisA/BisF blend resin with crystallisation resistance on storage. Also provides good pigment wetting and anti-setting.
Valysis® C020 PACM	Base Amine	bis-(p-aminocyclohexyl) methane	Base amine used to formulate amine curing agents
Valysis® C040 IPDA	Base Amine	Isophorone Diamine	Base amine used to formulate amine curing agents
Valysis® C010 MXDA	Base Amine	m-Xylylenediamine	Base amine used to formulate amine curing agents
Valysis® C030 MHHPA	Base Amine	4-Methylhexahydrophthalic anhydride	Base amine used to formulate amine curing agents
Valysis® CamCure 2973	Curing Agent	Polyamine	Polyamine for chemical resistant flooring, tank and pipe linings
Valysis® CamCure 2963	Curing Agent	Cycloaliphatic amine	High performance curing agent for self-leveling floorings
Valysis® CamCure 9125	Curing Agent	Polyamide	Reactive polyamide for excellent corrosion resistance
Valysis® CamCure 2848	Curing Agent	Polyamidoamine	Polyamidoamine for marine coatings & concrete primers
Valysis® C070 D230	Curing Agent	Polyamidoamine	Contributes to tough, clear, impact resistance coatings, castings and adhesives. Can be used to prevent surface blush.
Valysis® C080 D400	Curing Agent	Polyamidoamine	Provides increased flexibility and toughness (in conjunction with other curing agents)
Valysis® C090 D2000	Curing Agent	Polyamidoamine	Enhances flexibility, toughness and high peel strength (in conjunction with other curing agents)
Valysis® C100 T403	Curing Agent	Polyamidoamine	Used to improve elongation of higher Tg resins (in conjunction with cycloaliphatics), or to reduce the viscosity of other curing agents. Can be used to improve flexibility and strength.
Valysis® CamCoat 2604	Reactive Diluent	Mono-functional glycidyl ether	Reactive diluent based on Cresol
Valysis® C120 54K	Amine Accelerator		Homopolymerisation catalyst for epoxy resins cured with a variety of curing agents

Innovation Services:

Our innovation team are experts in creating bespoke solutions to exceed your requirements and have decades of knowledge and experience in the field of epoxy systems. Supported by our state-of-the-art laboratories, we are well-equipped in the application and testing requirements to meet industry standards.

An example of chemical resistance testing of an epoxy cast using a Camcoat 2101 resin and Camcure 2973 hardener mixed in a stoichiometric ratio and immersed in solution for ten weeks:

Alcohols	Chemical Name	Chemical Formula	Temperature					
			20°C			60°C		
			10%	20%	100%	10%	20%	100%
Isopropyl alcohol	C_3H_8O	●	●	●	●	●	●	●
N-butanol	$C_4H_{10}O$	●	●	●	●	●	●	●
Ethylene Glycol	$C_2H_6O_2$	●	●	●	●	●	●	●
Propylene Glycol	$C_3H_8O_2$	●	●	●	●	●	●	●
Glycerol	$C_3H_8O_3$	●	●	●	●	●	●	●
Benzyl Alcohol	C_7H_8O	●	●	●	●	●	●	●
Methanol	CH_4O	●	●					

Acid (Organic)	Chemical Name	Chemical Formula	Temperature					
			20°C			60°C		
			10%	20%	100%	10%	20%	100%
Formic Acid	CH_2O_2	●	●	●	●	●	●	●
Acetic Acid	$C_2H_4O_2$	●	●	●	●	●	●	●
Citric Acid	$C_6H_8O_7$	●	●	●	●	●	●	●
Acid (Inorganic)	Hydrochloric Acid	HCL	●	●				
	Phosphoric Acid	H_3PO_4	●	●	●			
	Nitric Acid	HNO_3	●	●	●	●	●	●
	Sulphuric Acid	H_2SO_4	●	●	●	●	●	●

Solvents	Chemical Name	Chemical Formula	Temperature	
			20°C	
			100%	
	Acetone	C_3H_6O	●	
	Methyl Ethyl Ketone	C_4H_8O	●	
	Toluene	C_7H_8	●	
	Xylene	C_8H_{10}	●	

Amines	Chemical Name	Chemical Formula	Temperature	
			20°C	60°C
			100%	100%
	Dimethyl Formamide	C_3H_7NO	●	●
	Triethanolamine	$C_6H_{15}NO_3$	●	●
	Aniline	C_6H_7N	●	

Alkali	Chemical Name	Chemical Formula	Temperature		
			20°C		
			10%	20%	50%
	Sodium Hydroxide	NaOH	●	●	●

- (0-2% wt change)
- (2-5% wt change)
- (5-10% wt change)
- (>10% wt change)

Lake

COATINGS

Get in touch to see how we can add value to your business with the supply and innovation of raw materials for epoxy systems.

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