ELECTROLUBE
THE SOLUTIONS PEOPLE

RCS
Rapid Cure Sealant

Electrolube RCS is a single component, solvent-free, low odour RTV which cures upon exposure to atmospheric moisture. The product offers high bond strength when applied to a variety of surfaces and exhibits rapid tack-free times. It is suitable for applications where there is the need to mechanically support components in order to overcome vibration failures commonly experienced in the automotive industry.

- High viscosity, non-slump paste with good electrical insulation characteristics
- High bond strength and excellent adhesion to a wide variety of substrates
- Modified polymer with silyl functional group; no low molecular weight cyclosiloxanes during cure
- Remains flexible and elastic over a wide temperature range

Approvals	**RoHS-2 Compliant (2011/65/EU):**	**Yes**

Typical Properties:	Colour	White
	Main Component	Modified Polymer with Silyl Functional Group
	Viscosity (Pa s)	100
	Consistency	Non-Slump Paste
	Density (g/ml)	1.6
	Skin forming rate*	6-10 minutes
	Cure time (Hours @ 20°C) *	24
	Shelf Life	12 Months

*Curing rate and skin forming is dependent upon ambient conditions of temperature and humidity

Cured Properties:	Temperature Range (ºC)	-40 to +130
	Glass Transition Temperature (ºC)	-45
	Shore Hardness	A40-45
	Shore Hardness after 7 days	A80
	Tensile Strength (MPa)	5
	Elongation at Break (%)	250
	Surface Resistivity (Ω)	1×10^{12}
	Volume Resistivity (Ω.cm)	10×10^{12}
	Dielectric Constant (@ 50Hz)	4.3
	Heat Aging – Weight Loss (7 days at 130ºC / %)	<3
	Moisture Resistance (96 hours at 95% RH, 40ºC / Ω)	5×10^{9}

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All information is given in good faith but without warranty. Properties are given as a guide only and should not be taken as a specification.

Electrolube cannot be held responsible for the performance of its products within any application determined by the customer, who must satisfy themselves as to the suitability of the product.

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F +44 (0)1530 416 640
BS EN ISO 9001:2008
Certificate No. FM 32082

Adhesive Properties

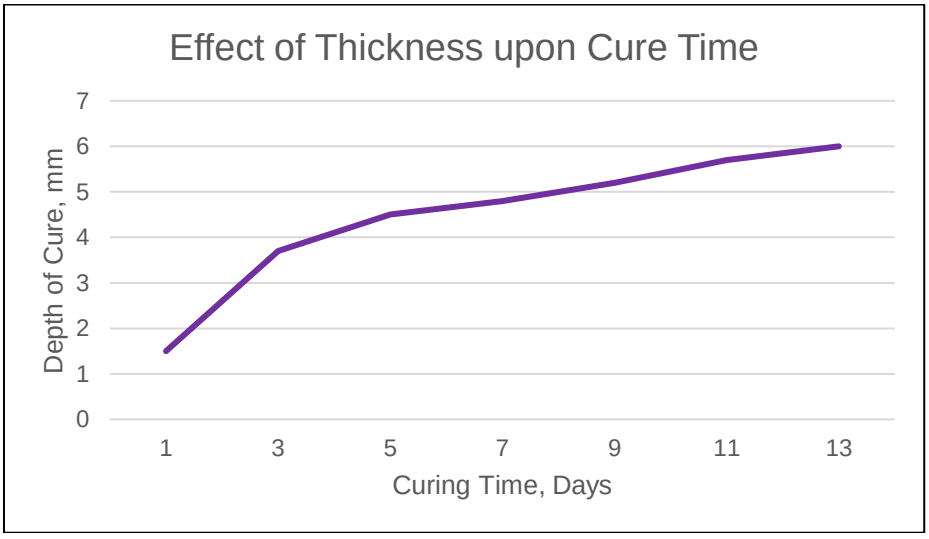
Adhesion to different substrates:

Cured for 7 days at 23ºC, 50%RH and an open time of 5 minutes

Substrate	Shear Strength (MPa)	Comments
Aluminium	6.8	Cohesion Failure
Stainless Steel	5.1	Cohesion Failure
Polycarbonate	5.4	Cohesion Failure
Nylon	5.1	Cohesion Failure
Glass	6.3	Cohesion Failure

Cure thicknesses:

Cured at 23ºC, 50%RH and an open time of 5 minutes



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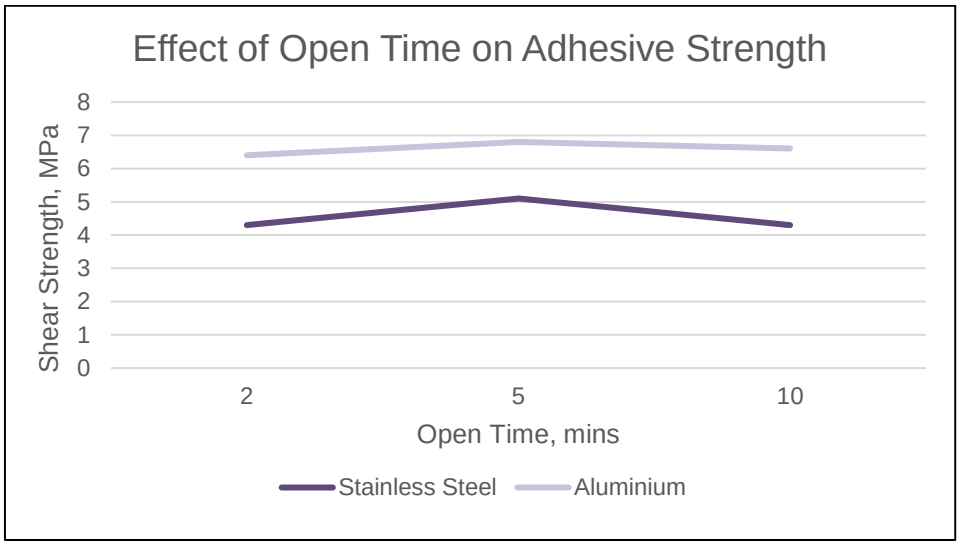
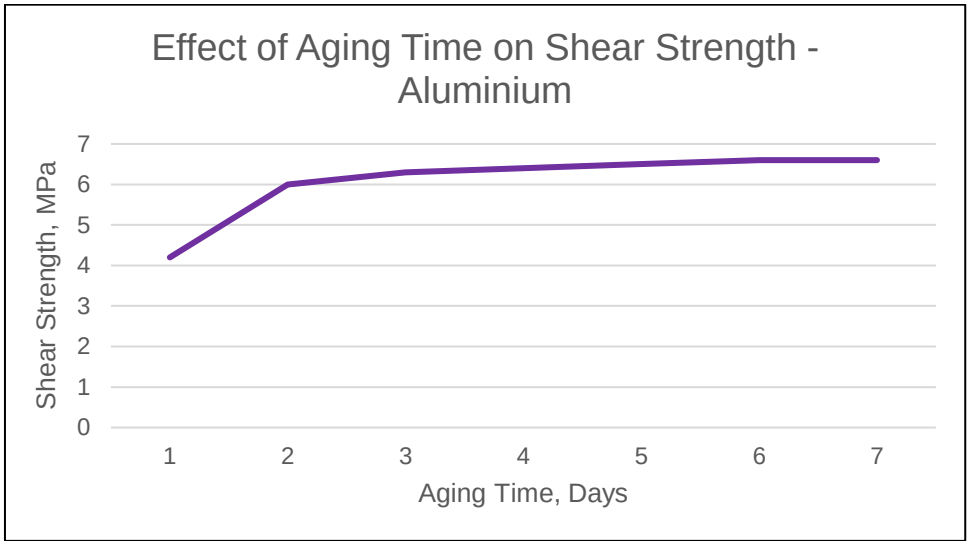
Open time:

Cured at 23ºC, 50%RH for 7 days



Full cure properties:

Cured at 23ºC, 50%RH and an open time of 5 minutes



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Directions for Use

Surfaces must be clean, dry and free from grease, dust and contaminants; Electrolube offer a range of cleaning products, including Ultrasolve (ULS), for such applications. Ensure that all solvents have completely evaporated prior to application.

RCS is a moisture curing system. Relative humidity of 50% or above is preferred for curing. Apply a thin layer of product onto each bonding surface; the thickness of the layer will affect the rate of initial cure – the higher the thickness applied, the longer it will take to reach the required strength. Final strength is obtained after ~24hours.

Bulk Packaging Specifications

Package Size	Diameter (mm)	Height (mm)
310 ml cartridge	45.9 (inside)	215.5 (without threaded nipple)
17 kg tin	285 (internal)	280 (internal)

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