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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. Based on modified polymer technology RCS offers good elasticity, making it ideal for a wide variety of bonding and sealing applications.

- 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:	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 co	onditions of temperature and humidity
Cured Properties:	Temperature Range (°C)	-40 to +130
	Glass Transition Temperature (°C)	-45
	Shore Hardness	A40-45
	Tensile Strength (MPa)	5
	Elongation at Break (%)	250
	Surface Resistivity (0)	1×10^{12}
	Volume Resistivity (0.cm)	10×10^{12}
	Dielectric Constant (@ 50Hz)	4.3
	Heat Aging – Weight Loss (7 days at 130°C / %)	<3
	Moisture Resistance (96 hours at 95% RH, 40°C / Ω)	5 x 10 ⁹

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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.



Adhesive Properties

Adhesion to different substrates:

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



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Open time:

Cured at 23°C, 50%RH for 7 days



Full cure properties:

Cured at 23°C, 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.

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