

Optimax 150CL Fast Cure Epoxy

Description	A versatile easy to use solvent free epoxy adhesive, which can be can be used to bond or repair most materials such as wood, metal, glass, ceramic, plastics and rubbers. The product hardens in 5 minutes with high bond strength and chemical resistance.
Advantages	Easy to use two component adhesive system. Excellent adhesion to wide variety of materials such as aluminum, copper, steel, brass, concrete, FRP/SMC, wood, glass, plastics, ceramics, painted metals, graphite, polyurethane, galvanized metals, rigid plastics, etc. High bond strength develops in 2-3 hours.

Physical properties - uncured adhesive

Mixed Viscosity @ 25 ⁰ C	15,000 – 20,000 cps
Mixing Ratio	1:1
Mixed Colour	Clear
Working Life	5 minutes
Operating temperature range	-40 to +130°C
Maximum internittant operating	
Temperature	+150°C
Specific Gravity	1.1
Cure time	2-3 hours

Physical properties - cured adhesive

Shore Hardness D	78 - 80
Shear Strength	14 – 18 MPa
Peel Strength	3 – 5 MPa
Thermal Conductivity (W/mK)	0.1 W/mK
Coefficient of thermal expansion	$60 - 120 \ge 10 \text{ E}^{-6}$
Dielectric Strength (kv/mm)	50 – 90 kv/mm
Volume resistivity (OHM/cm)	$3 - 5 \ge 10 \ge 12$ ohm/cm

Chemical Resistance Data

The chemical resistance of Optimax 150CL was evaluated by bonding the Aluminium/Aluminium as per specification, cured for 7 days @ 25° C then kept immersed in the media listed here and tested for lap shear strength.

Effect of immersion in different media.

(Immersion for 7 days in various media)

MEDIA LAP SHEAR MPa

Petrol	18
Acetic acid (10%)	15

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	Xylene	15	
	Lubricating oil-HD30	17	
	Paraffin	15	
	MEDIA	LAP SHEAR MPa	
	Water @ 23 ⁰ C Water @ 90 ⁰ C	17 17	
Preparation	To achieve maximum performance from Optimax 150, it is essential that all substrates are clean, dry and free from surface contaminations such as oil or grease.		
Data ranges	The data contained in this data sheet may be reported as typical value and/or range. Values are based on actual test data and are verified on a regular basis.		
Storage	Store between 8°C to 21°C out of sunlight and in tightly sealed containers. Refer to packaging specific quote for shelf life information.		
Safety	Consult the Material Safety Data Sheet.		
Notes	The information contained herein is produced in good faith and is believed to be reliable but is for guidance only. Novachem Ltd. and its agents cannot assume liability or responsibility for results obtained in the use of its product by persons whose methods are outside or beyond our control. It is the user's responsibility to determine the suitability of any of the product and methods of use or preparation prior to use mentioned in our literature and furthermore the user's responsibility to observe and adapt such precautions as may be advisable for the protection of personnel and property in the handling and use of any of our products.		