

Product	Optimax® 150-CL Fast Cure Structural Epoxy
Description	Optimax® 150-CL is a high-performance solvent free structural epoxy adhesive which can be used to bond a wide range of manufacturing materials including 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°C	15,000 – 20,000 cps
Mixing Ratio	1:1
Mixed Color	Clear
Working Life	4-6 minutes
Operating temperature range	-40 to +130°C
Specific Gravity	1.1
Cure time	2-3 hours

Physical properties - Cured Properties

Shore Hardness D	78-80
Shear Strength	14–18 MPa
Peel Strength	3–5 MPa

Chemical Resistance Data

The chemical resistance of Optimax® 150-CL 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
Xylene	15
Lubricating oil-HD30	17
Paraffin	15
Water @ 23 °C	17
Water @ 90 °C	17

Preparation	To achieve maximum performance from Optimax® epoxy resins, 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 Corporation 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.