

High Performance Manufacturing Adhesives & Sealants

Technical Data Sheet

Revision number 090914

Product Optimax® 815-PE Fast Cure Epoxy Resin Potting Compound

Description Optimax® 815-PE is a high performance epoxy resin used for potting and

encapsulating electronic components. Optimax 815-PE has been formulated to

exhibit superior chemical and environmental resistant properties.

Applications Used for potting and encapsulating switches, connectors, plugs, electronic

components, solar panel assemblies, ballast's etc. Customised low viscosity

formulation designed to flow around intricate and complex components.

Advantages Fast cures speeds of 3-5 minutes can be achieved.

Excellent adhesion to a 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. Self-levelling.

Full Cure Time

Physical properties - uncured adhesive

Mixed Viscosity @ 25° C 15,000 - 20,000 cps

Mixing Ratio1:1Mixed ColourClearWorking Life3-5 minutesSpecific Gravity1.1

Physical properties - cured adhesive

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

Chemical Resistance Data

The chemical resistance of Optimax® 815-PE 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.

2-3 hours

Effect of immersion in different media.

(Immersion for 7 days in various media)

MEDIA	LAP SHEAR MP
Petrol	18
Acetic acid (10%)	15
Xylene	15
Lubricating oil-HD30	17
Paraffin	15

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Water @ 23 °C 17 Water @ 90 °C 17

Preparation To achieve maximum performance from Optimax® 815-PE, 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

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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.