



Optimax[®] Epoxy Resins

Driving Industry standards, Optimax[®] next generation epoxy resin systems are based on proven chemistries.

OPTIMAX[®]

High performance manufacturing adhesives

Optimax® Structural Bonding Epoxy Resins

We offer a complete line of two-component epoxy resin adhesives for structural bonding, potting and encapsulation applications. Below is a list of our front line grades. Custom formulation and packaging options are available upon request.

Optimax®	Packaging	Colour	Working Time min	Fixture Time min	Hardness Shore D	Application
150-CL	50ml 400ml	Clear	4-6	10-15	78-80	All purpose high strength adhesive with a 5 minute working time. Excellent adhesion to a wide variety of substrates.
300-CL	50ml 400ml	Clear	25-30	50-60	78-80	All purpose high performance adhesive with 30 minute working time. Excellent adhesion to a wide variety of substrates.
120-HP	50ml 400ml	Grey	20-30	120-180	78-80	High performance industrial, assembly and manufacturing epoxy adhesive.
140-RT	50ml 400ml	Off-White	60-70	160-180	85	Rubber toughened epoxy, high strength with high peel and shear properties.
141-MR	50ml	Metallic Grey	4-6	12-15	78-80	Quick metal repair and assembly adhesive with very high strength properties.
589-SE	50ml 400ml	Black	60-90	185-200 min	78-80	Structural epoxy resin. High performance manufacturing epoxy resin for multiple manufacturing applications.

Optimax® Potting and Encapsulation Epoxy Resins

Optimax®	Colour	Packaging	Working Time min	Open Time min	Hardness Shore D	Self Leveling	Application
815-PE	Clear	50ml 400ml	3-5	12-13	79	Yes	High performance epoxy resin used for potting and encapsulating electronic components. Formulated to exhibit superior chemical and environmental resistant properties. Used for potting and encapsulating switches, connectors, plugs, electronic components, solar panel assemblies, ballasts etc. Customised low viscosity formulation designed to flow around intricate and complex components. Short working time.
830-PE	Clear	50ml 400ml	20-30	54-58	78	Yes	Epoxy resin used for potting and encapsulating electronic components. Formulated to exhibit superior chemical and environmental resistant properties. Used for potting and encapsulating switches, connectors, plugs, electronic components, solar panel assemblies, ballasts etc. Customised low viscosity formulation designed to flow around intricate and complex components. Medium working time.
855-PE	Black	50ml 400ml	60-80	180-220	85	Yes	A potting and encapsulation compound with good electrical properties. Suitable for a wide range of potting, protection, coating and encapsulation applications.
894-PE	Black	50ml 400ml	60-70	175-200	79	Yes	Long open time potting and encapsulation epoxy resin. Superior chemical and resistance characteristics. Suitable for a wide range of manufacturing applications.

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Optimax® Epoxy Resins – Potting, Encapsulation, Laminating

Optimax® epoxies are widely used for the encapsulation or potting of electronic components and structural bonding applications. The epoxy specification will depend on the type of component being encapsulated, potted or bonded and the performance requirements for the finished component. The performance of the potted or encapsulated component in terms of, for example, thermal conductivity, shrinkage, dielectric strength will be directly related to the product formulation.

Optimax®	Specification	Colour	Packaging	Working Time min	Shore Hardness	Application
890-PE	-	Clear/Yellow	Bulk	Potting – 15min-12hrs Laminating – 3hr-18hr	Various	Optimax® 890-PE is a high performance low viscosity epoxy resin which can be used for potting, encapsulating, electronic components and structural bonding composite applications. Optimax® 890-PE has been formulated to exhibit superior chemical and environmental resistant properties.
891-SES	-	Yellow/blue	Bulk	Gel time on 100gm @ 25°C - 118 min Gel time on 250gm @ 25°C - 75 min	68D	Optimax® 891-SES is a high performance low rubber toughened epoxy adhesive which enables bonding with very high mechanical resistance (310 kg/cm ²) and high peel resistance. It is an easy product to work with curing at ambient temperature and 1:1 mixing ratio in volume or 100-80 by weight. Optimax® 891-SES is formulated for a large range of bonding applications including composites, steel, aluminium, concrete and wood. It is ideal for core bonding and for composite to composite bonding.
893-CR	Non-Flammable	Clear/Yellow	Bulk	Pot life - 5 minute / 100g / 25°C Pot life - 15 minute – thin film – complete cure	-	Optimax® 893-CR is a high performance two-component epoxy resin that can be used for both bonding and potting applications in a wide range of manufacturing applications. Optimax® 893-CR will bond all common substrates including wood, composites, aluminium, concrete, plastics etc. Optimax® 893-CR is non-flammable, fast curing and exhibits superior environmental and chemical resistant properties.
895-CR	-	Optically Clear	Bulk	Rigid-10 hours Flexible-24 hours	Rigid 95D Flexible 70A	Optimax® 895-CR is formulated as a low viscosity optically clear epoxy resin casting system for decorative, potting and casting applications. Optimax® 895-CR is optically clear, UV stable, solvent free and suitable for bonding to most common substrates such as glass, wood, stone, ceramic and metal. Used for potting and encapsulating applications where optically clear casts and pots are required. Suitable for a wide range of potting, encapsulation and casting applications where excellent resistant properties and optically clear castings are required. Optimax® 895-CR is a low viscosity formulation designed to flow around intricate parts and casts.
896-PE	M2F1 UL-94-VO	Clear/Yellow	Bulk	Gel time 60min (+/- 15 mins) @ 25°C / 100g	86D	Optimax® 896-PE is a high performance two component epoxy casting and potting resin for dielectric, electrical and electronic applications. Optimax® 896-PE is self-extinguishing (M2F1) and conforms to UL-94-VO. Excellent dielectric properties. Self-extinguishing. Excellent fire and heat resistant properties. High heat conductivity properties. Suitable for a wide range of manufacturing applications.

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NovaChem

Innovative Adhesive Formulations

*Innovative formulations based
on proven chemistries.*



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