



# Optimax<sup>®</sup> UV Light Curing Adhesives

Military, Defence and Aerospace  
applications worldwide.

**OPTIMAX<sup>®</sup>**

High performance manufacturing adhesives

## CUSTOM FORMULATING

We are industry leaders in providing design engineering and technical support. We develop customised formulations to meet your specific application requirements. Our technical group will work closely with you to identify criteria for resin systems that will meet your production needs and final product specifications. Our expertise extends to epoxies, urethanes, and multi-functional light curing systems. Below is a list of our front line grades.

### Optimax® Adhesive Systems

Our structural adhesives are formulated to withstand severe impact, peel forces and offer excellent chemical and temperature resistance. They improve product performance, aesthetics, reduce assembly time and lower cost.

We have the technical capacity to provide you with custom designed bonding products.

### Optimax® Opto-electronic, Photonic and Electrically Conductive Systems

We have developed technology for the manufacturing application solutions required for light emitting diodes (LED), optical displays, image sensors, opto couplers, detectors, and infrared devices. We offer a complete line of adhesives and sealant systems suitable for the continuing technological development in display manufacturing.

Optimax®	Description	Substrates	Viscosity cps	Shore Hardness
<b>Glass Bonding</b>				
3116	Low viscosity, structural UV adhesive. Suitable for a wide range of applications.	Glass / Metal / Plastics	100	70D
3806	Low viscosity, fast curing, structural UV adhesive. Provides tough impact resistant adhesion to both flexible and rigid substrates.	Glass / Metal / Plastics	450	45D
3127	Medium viscosity, rigid, structural UV adhesive. Very high strength glass to metal adhesive.	Glass / Metal	900	60D
3088	High viscosity, fast curing structural UV adhesive. Multiple manufacturing applications. Very high strength. Provides tough impact resistance.	Glass / Metal / Plastics	2000	75D
3111	High viscosity, fast curing structural UV adhesive. Rigid bonding applications. Wide range of manufacturing applications.	Glass / Metal	6000	72D
3509	Very high viscosity, fast curing, flexible structural UV adhesive. Provides tough impact resistance. Multiple manufacturing applications.	Glass / Metal / Plastics	16,000	45A
<b>Plastic Bonding</b>				
5311	Low viscosity, structural UV adhesive for multiple manufacturing applications.	Plastics / Metals	180	72D
5806	Low viscosity. Flexible. Use for applications where shock and impact resistant properties are required.	Plastics / Metals / Glass	500	50D
5088	Medium viscosity, rigid structural UV adhesive. Ultimate high strength. High resistance properties.	Plastics / Metals / Glass	1800	74D
5326	High viscosity, flexible, structural UV adhesive. Multiple manufacturing applications.	Plastics / Glass	5900	55D
5509	Ultimate flexibility. Ultimate high strength. All purpose manufacturing adhesive.	Plastics / Metals / Glass	14,900	50A
<b>Potting &amp; Encapsulation</b>				
8002-LV	Low viscosity UV resin for potting, encapsulation and coating applications. Optically clear and tack free.	Multiple	100	85D
8002	High viscosity UV resin for potting, encapsulation and coating applications. Optically clear and tack free.	Multiple	3200	85D

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## Optimax® UV Adhesives – Front Line Grade Range

### Optimax® Engineered High Performance Adhesives

We offer a range of products designed to meet high performance requirements in aerospace and electronic applications. Our systems protect your assemblies from the degrading, environmental and operating effects of chemical exposure, moisture, thermal cycle and shock, current leakage and vibration.

### Optimax® UV/Light cure products

We pioneered the use of light curing adhesives, masks, potting compounds and coatings for the industrial, medical, and electronics industries. Optimax systems cure in seconds upon exposure to UV/visible light, and offer superior adhesion and performance to a variety of substrates.

Optimax®	Description	Viscosity	Shore Hardness
<b>Military Specified</b>			
951509	Meets MIL-spec 810G. Suitable for bonding all types of plastics, glass and metal based substrates. Ultimate bond strength. Highly flexible.	17,200	45A
<b>UV Acrylic's</b>			
8067	New Technology. Excellent chemical and environmental resistance properties. High performance manufacturing UV adhesive.	60	40D
8167	New Technology. Excellent chemical and environmental resistance properties. High performance manufacturing UV adhesive.	22,500	40D
<b>Wire Tacking</b>			
6509	Formulated to reduce surface tack caused by oxygen inhibition. The product can be used for wire tacking on PCB's as well as ruggedisation of board components.	15,800	48A
<b>Peelable Masks</b>			
UV-M-112	Designed to provide protection during processes such as shot peening, chemical milling, grit blasting, acid stripping, plating and spray coating.	100,000	40D
<b>Cationic / Dual Cure</b>			
6439	Multicure, UV, heat, activator. Suitable for applications where light transmittance is difficult.	1450	74D
6440	Multicure, UV, activator. Suitable where light transmittance is difficult. Low shrinkage. Shadow cure applications.	5000	77D
<b>UV Cured Epoxy Resins</b>			
UV-S-2017	Epoxy resin system designed for industrial adhesive, small potting and laminating applications where fast process cure is required. High resistance properties.	1000	80D
UV-S-2011	Epoxy resin system designed for industrial adhesive, small potting and laminating applications where fast process cure is required. High resistance properties.	12,000	60D
<b>Optical Adhesives</b>			
6435	Low shrinkage Optical Adhesive. High performance manufacturing optical adhesive. Suitable for use in a wide range of optical manufacturing applications.	1250	75D
6450	Excellent strength. Low outgassing for alignment stability. Suitable for a wide range of optical applications.	11,000	75D

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# NovaChem

*Innovative Adhesive Formulations*

*Innovative formulations based  
on proven chemistries.*



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