Exclusive to Ellsworth Adhesives

emax

by DYMAX®

ELLSWORTH ADHESIVES • EUROPE

One Supplier - Your Complete Solution

What is E-MAX ?

The E-MAX range of products is an exclusive portfolio of UV curing adhesives, manufactured by Dymax and available for purchase ONLY from Ellsworth Adhesives.

The E-MAX range comprises of 10 products including solvent free adhesives, coatings, FIP/CIP gaskets, and masking resins that cure in seconds upon exposure to UV/Visible light.

With fluorescing, cure validation, and secondary cure technologies available, E-MAX products optimize the speed of automated assembly, enable 100% in-line inspection, and increase product throughput. E-MAX adhesives are used to bond glass, metal, and plastic substrates.

Product Categories

- Conformal Coatings
- Peelable Masking
- Plastics Bonding
- Reinforcement
- Ruggedization
- Glass Bonding
- Gaskets

About Dymax

Dymax is the leading manufacturer of solvent-free UV light curing adhesives and light curing systems suitable for bonding, tacking, sealing, potting, coating, laminating and encapsulating.

Dymax products are suited to plastics assembly, fibre optic, medical assembly, electronic assembly industries and more. Dymax also offers UV cure adhesives, UV cure dispensing products and UV curing equipment.

Conformal Coatings

E-MAX conformal coatings cure in seconds with UV light and eliminate the need to rack or dry boards after application. With ambient moisture curing available for shadowed areas, they provide protection against moisture, dust, chemicals, and temperature cycling. E-MAX coatings are electrically insulated so they can be applied over the entire PCB surface or in select areas to provide protection from service environments.

E-MAX 903-E

Features	• Low viscosity • Bright blue fluorescing • Secondary moisture cure for shadowed areas • One part, no mixing required	• Solvent free • No VOCs • Low odour • Chemical resistance
Viscosity	125 cP	
Cure	Primary: UV/Visible light	Secondary: Moisture
Approvals	MIL-I-46058C UL 94 V-0 & UL 746-E	IPC-CC-830B
More Information	Download PDS	

E-MAX 905

Features	• Medium viscosity for component wetting • Secondary heat cure for shadowed areas • Flexible for enhanced thermal shock performance • Blue fluorescing for inspection	• Solvent free • One part, no mixing or dilution required
Viscosity	2,500 cP	
Cure	Primary: UV/Visible light	Secondary: Heat

E-MAX 905 continued

Approvals	MIL-I-46058C UL Recognized	IPC-CC-830B
More Information	Download PDS	

E-MAX 905-LV

Features	• Low viscosity for spray valve compatibility • Secondary heat cure for shadowed areas • Blue fluorescing for inspection • Flexibility for enhanced thermal shock performance	• Solvent free • One part, no mixing or dilution required
Viscosity	850cP	
Cure	Primary: UV/Visible light	Secondary: Heat
Approvals	MIL-I-46058C	IPC-CC-830B
More Information	Download PDS	

Peelable Masking Products

Peelable masking products cure in seconds when exposed to UV/Visible light. The cured mask peels easily, leaves no residue and is ideal for use in conformal coating applications, wave soldering or reflow operations.

E-MAX 906-B

Features	• Blue colour for easy visual inspection • Medium adhesion for peeling • Solvent and silicone free	• Exceptionally thixotropic for manual or automated dispensing

E-MAX 906-B continued

Viscosity	150,000 cP
Cure	UV/Visible light
More Information	Download PDS

Plastic Bondings Products

E-MAX plastic bonding adhesives cure in seconds upon exposure to UV/Visible light - even through UV-blocked plastics.

Forming high-strength, environmentally-resistant bonds to plastic and other substrates, E-MAX 303 is an excellent choice for bonding dissimilar materials; something that cannot be done with traditional welding methods and other types of adhesives.

E-MAX 303

Features	• Strong bonds to a wide variety of plastics • Applications include plastic housing assembly, display assembly, and appliance assembly • Fast and tack-free cure with BlueWave® LED Prime UVA
Viscosity	125 cP
Cure	UV/Visible light
More Information	Download PDS

Gasket Products

E-MAX gaskets cure completely in seconds - even to 1/4 inch thick beads. They offer good compression set and eliminate the need for ovens, racking, stacking, and the waiting associated with traditional form/cure in place gaskets. These silicone and solvent-free gaskets are designed for sealing intricate, complex configurations as well as flat surfaces and wide or shallow grooves. They have excellent adhesion to plastics, glass, and metal, and are ideal for trim assembly, sound and vibration damping, and non-skid applications.

E-MAX G02

Features	• Conforms to intricate channels or recesses • Excellent tear resistance • Low outgassing • Moisture resistant • Cures soft and tack free • Silicone free • Black in colour
Viscosity	40,000 cP
Cure	UV/Visible light
More Information	Download PDS

E-MAX G04

Features	• Conforms to intricate channels or recesses • Excellent tear resistance • Low outgassing • Cures soft and tack free • Silicone free • Clear in colour
Viscosity	39,000 cP
Cure	UV/Visible Light
More Information	Download PDS

Glass Bonding Products

E-MAX light-curable glass-bonding adhesives cure in seconds upon exposure to UV/Visible light, and forms high-strength, clear, environmentally resistant bonds to glass, plastic, and metal substrates. Solvent free, this one-part adhesive does not emit VOC's during cure, and requires no mixing. It is ideal for a variety of applications including architectural glass bonding, furniture assembly, bonding crystal figurines and other novelties, and attaching metal brackets to glass.

E-Max 403

Features	• High adhesion to glass and metal • Optically clear adhesive • Structural bonder for glass, plastic, and metal • High impact • Resistant to yellowing and thermal shock • UV resistant
Viscosity	2,500 cP
Cure	UV Light
More Information	Download PDS

Reinforcement Products

E-MAX 904-T-SC cures with UV/Visible light and is used for reinforcing fine pitch or leadless components on printed circuit boards. This one-part adhesive contains no VOCs and features Dymax patented See-Cure technology, allowing for easy visual conformation of adhesive placement and cure. 904-T-SC helps reduce stress on board components, and is highly thixotropic for minimal movement after dispense. It can also be used for shock absorption, component and plastics bonding, and as an under fill replacement.

E-MAX 904-T-SC

Features	• Medium-viscosity grade for easy application • Blue to clear upon exposure to UV/Visible light • Adhesion to various PCB substrates • One part, no mixing required • Reduces stress on board components • No VOCs • Fast, room-temperature cure
Viscosity	8,000 cP
Cure	UV/Visible Light
More Information	Download PDS

Ruggedization Products

E-MAX Ruggedization products are designed to provide optimal circuit protection, and their ability to cure “on demand" make them ideal for manual applications such as wire tacking and coil termination, where optimal placement and immediate strength is critical. E-MAX 904-GEL-SC component ruggedizing and staking material is engineered to hold critical components, such as Ball Grid Arrays (BGA) and Video Graphics Arrays (VGA), for secondary processes or long-term reliability.

E-MAX 904-GEL-SC

Features	• Highly thixotropic gel for minimal flow • Blue to clear upon exposure to UV/Visible light • Adhesion to various PCB substrates • Fast, room-temperature cure • Reduces stress on board components • No VOCs • One part, no mixing required
Viscosity	38,000 cP
Cure	UV/Visible Light
More Information	Download PDS

About Ellsworth Adhesives

Ellsworth Adhesives is a global distributor of specialty adhesives, chemicals and equipment.

Over the past four decades, we have built an extensive portfolio of products and have earned a reputation for providing customers with an accurate and timely delivery.

Our expert Sales Team has unrivalled technical knowledge and will identify a solution that is tailored to your specific needs.

From establishing and providing the product you require, to dispensing, labelling and packaging, Ellsworth Adhesives can take care of every detail.

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