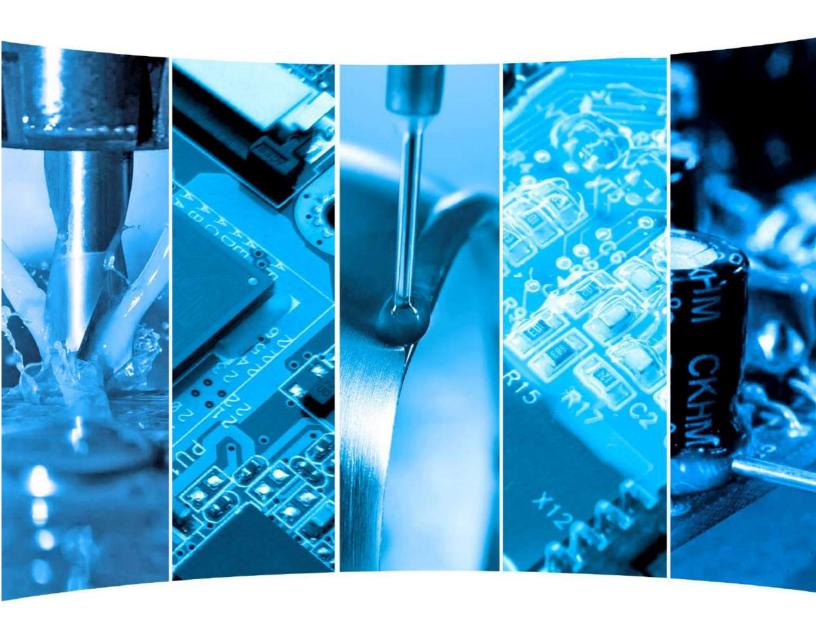
# E-MAX 2.0 Product Selector Guide



Conformal Coatings Materials for Reinforcement Materials for Ruggedization Maskants



# max 2.0 Light-Curable Materials Selector Guide

/ Care 2							
PRODUCT	E-MAX 776-SC	E-MAX 903-E	E-MAX 908	E-MAX 904-T-SC	E-MAX 904-GEL-SC	E-MAX 906-B-REV-A	
Typical Applications	Maskant	Conformal Coating		Reinforcement	Ruggedization	Electronic Maskant	
			CHANGE TO SELECT THE S	C Blus		Lig Ad eace Ele	
Features	Easy peel off after exposure to heat; formulated with blue-to-pink See-Cure technology; spray or dip	Low viscosity; chemical resistance; shadow cure; bright blue fluorescing	Excellent chemical and thermal shock resistance; superior re-workability; bright blue fluorescing	Medium-viscosity grade for easy application; adhesion to various PCB components; formulated with See-Cure technology	Highly thixotropic gel for minimal flow; adhesion to various PCB components; formulated with See-Cure technology	Exceptionally thixotropic for manual or automated dispensing; solvent free; silicone free; blue color for easy visual inspection; medium adhesion for peeling	
Viscosity	52,000 cP	125 cP	1,100 cP	8,000 cP	38,000 cP	115,000 cP	
Primary Cure	UV/Visible Light	UV/Visible Light	UV/Visible Light	UV/Visible Light	UV/Visible Light	UV/Visible Light	
Secondary Cure	-	Moisture	Moisture	-	-	-	
Approvals		MIL-I-46058C UL 94 V-0 & UL 746-E IPC-CC-830B	MIL-I-46058C UL 94 V-0 & UL 746-E IPC-CC-830B		-	-	

### Typical Cost Savings of Dymax Light-Curable Materials:

- Cure in seconds; increase throughput
- Minimal floor space requirements
- Simple to dispense no solvent management or mixing systems required
- No silicone containment required
- Eliminate labor costs associated with complex dispensing system maintenance and manual transferring of parts for long cure
- No secondary inspection of bond area with See-Cure

## Environmental Benefits of Dymax Materials:

No VOCs | Solvent free | HAP free



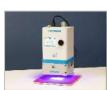




BlueWave® MX-150 Spot Lamp



BlueWave® 200 3.0 Spot Lamp



BlueWave® AX-550 Flood Lamp



EC Flood Lamp Systems



Conveyor Systems

## See-Cure Technology



See It Dispense

Dymax adhesives with patented See-Cure technology are bright blue in the uncured state. The blue color is easily visible against clear and most colored substrates, enabling simple confirmation of the quantity and location of placement.

See It Cure

As the adhesive cures, the blue color within the adhesive fades and ultimately turns clear after full cure. This serves as a visible confirmation that the adhesive has received a sufficient dose of energy to cure. There is no evidence of the blue color on the finished parts.

# **Light-Curing Equipment**

Dymax offers a wide range of light-curing equipment for curing adhesives, coatings, maskants, and sealants. Available systems include spot lamps for small-area cure or repair, flood lamp systems for bench-top batch curing or mounting over assembly lines or onto conveyors, and conveyor systems for automated in-line curing materials including adhesives, pastes, solvents, and lubricants.

# **Dispensing Equipment**

Dymax offers a wide range of dispensing equipment. From complete systems to individual components and accessories, our products are ideal for use with many low-to-high viscosity materials including adhesives, pastes, solvents, and lubricants.

# **Best Practices for Demonstration**

			Demo Exposure Time in Seconds (Between Glass Slides)				Demo Exposure Time in Seconds	
Lamp	Lamp Intensity	Radiometer	E-MAX 903-E <sup>±</sup>	E-MAX 908	E-MAX 904-T-SC <sup>†</sup>	E-MAX 904-GEL-SC <sup>†</sup>	E-MAX 776-SC	E-MAX 906-B-REV-A
BlueWave® 200 UV Curing Spot Lamp*	10 W/cm <sup>2A</sup>	ACCU-CAL™ 50	1	5	2	2	1	3
5000-EC Flood Lamp System	200 mW/cm <sup>2B</sup>	ACCU-CAL™ 50	2	-	10	10	8	5

A Intensity measured at end of 5 mm lightguide

B Intensity measured at work surface, 13 cm from bottom of lamp housing
C Cured with the BlueWave® LED Flood, 385 nm Array at 3" from surface, 550-590 mW/cm²

<sup>±</sup> Highest probability of success when boards come to Dymax for automated conformal coating application and cure.

<sup>†</sup> Product is sensitive to oxygen inhibition. Higher intensity, longer cures, inert gas blankets, or alternative lamps may be used to limit tackiness of surfaces where material is exposed to oxygen and a tack-free surface is required.



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