



The **MAXIMUM PERFORMANCE SERIES™** is a complete family of engineered structural adhesives. These products, both one-and two-part systems, offer a wide range of versatility in meeting your application requirements. Engineered to provide a unique balance of tensile, shear, and peel strength, they assure maximum performance in assemblies that see stress, shock, and impact. Strong, durable bonds are their trademark, even then faced with severe environmental conditions.

MP SERIES

What we bond:

ABS
ACRYLICS
ALUMINUM
BRASS
COATED METALS
COLD ROLL STEEL
COPPER
FIBERGLASS
GALVANIZED
GLASS
MAGNET MATERIAL
METAL
NYLONS
PHENOLICS
PLATED METALS
POLYCARBONATE
PVC
STAINLESS STEEL
STYRENE
TITANIUM
URETHANES
VINYL

Maximum Performance Series— Structural Adhesives

The **MP SERIES™** possesses excellent resistance to solvents, salt, humidity, acids, and caustics, with outstanding temperature cycling capability. Due to their unique bonding properties, they will structurally bond a variety of plastics, ceramics, and metals. They are available in a full range of viscosities and cure speeds to meet specific application requirements. The **MP SERIES™** lends itself well to high speed production applications. Whether the application is bonding similar or dissimilar parts, design engineers select the **MP SERIES™** for the optimum in finished product quality, reliability, performance, and cost effectiveness.



The **MAXIMUM PERFORMANCE SERIES™** is a complete line of engineered structural adhesives consisting of no mix structurals, UV curables, one and two part epoxies, and two-part methacrylates.

Engineering Excellence

For technical information and support call **1-800-552-0299** or visit our website at

www.instantca.com

Adhesive Systems, Inc.



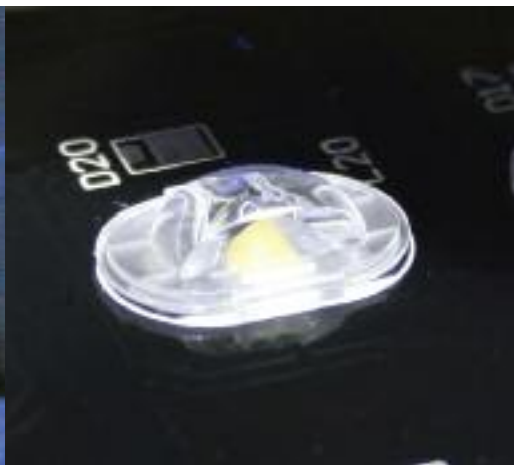
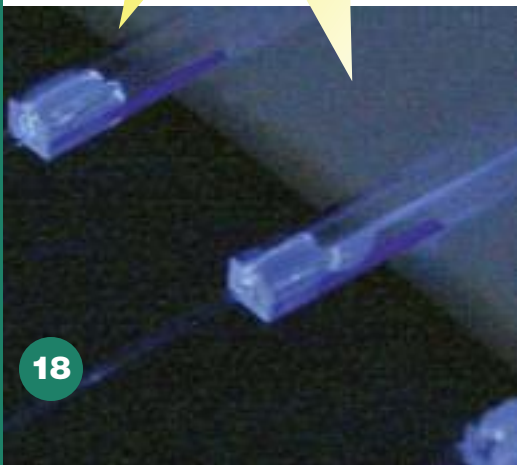
MAXIMUM PERFORMANCE SERIES

UV-Curing Adhesives

The **MP 530000 SERIES** is made up of a complete range of UV curing adhesives that are used in a diverse range of assembly applications. These applications include bonding, sealing, coating, tacking, potting, and encapsulating. They are used in a wide range of product assembly applications that include automotive, electronic, medical, industrial, etc.

Engineers have found that the **MP 530000 SERIES** is an essential tool in improving overall product quality, lowering per unit cost, reducing processing time, and allows for innovative design solutions. The **MP 530000 SERIES** are single component, solvent free materials that cure in seconds when exposed to UV/visible light, and have been engineered to meet specific application requirements.

**We
Bond
at the
Speed
of Light**



Medical Device Applications

The **MP 530000 M** family of products are high performance UV curing adhesives engineered to bond a wide range of plastics, glass, and metals. This UV curing adhesive is a leading performer when used for medical device applications. Our UV curing adhesives can be modified, or customized in an effort to assist the customer with their specific application needs. This product has passed ISO 10993 Cytotoxicity testing.

Product	Fixed Time	Water Absorp. 2 hrs. @ 100C	Viscosity	Durometer Hardness	Tensile Strength PSI	Temp. Range
MP531101M	0.5 Seconds	3.0%	110-170cps	D72	5800	-60 to 300 F
MP531102M	0.5 seconds	3.0%	180-270 cp	D70	4400	-60 to 300 F
MP531103M	0.5 seconds	3.0%	300-400 cp	D70	3650	-60 to 300 F
MP531104M	0.5 Seconds	3.0%	440-550 cp	D65	3450	-60 to 300 F
MP531105M	0.5 Seconds	3.6%	3000-5000 cp	D70	3600	-60 to 300 F
MP531106M	0.5 Seconds	3.0%	110-170 cp	D72	5800	-60 to 300 F
MP531107M	0.5 Seconds	3.0%	180-270 cp	D70	3650	-60 to 300 F
MP531108M	0.5 seconds	3.0%	300-400 cp	D70	3650	-60 to 300 F
MP531109M	0.5 Seconds	3.0%	400-550cp	D65	3450	-60 to 300 F
MP531110M	0.5 seconds	3.6%	3000-5000 cp	D70	3600	-60 to 300 F
MP531701M	0.5 seconds	3.7%	300-420 cp	A45		-60 to 300 F
MP532109M	0.5 seconds	2.9%	600-1000 cp	D68	4050	-60 to 300 F
MP532110M	0.5 seconds	2.9%	600-1000 cp	D68	4050	-60 to 300 F
MP532111M	0.5 seconds	3.6%	6000-12000 cp	D70	3200	-60 to 300 F
MP532112M	0.5 seconds	3.6%	6000-12000 cp	D70	3200	-60 to 300 F

Optical Applications

The **MP 530000 O** family of products are high performance UV curing adhesives engineered to bond a wide range of plastics and glass. This UV curing adhesive is a leading performer when used for binding optical applications. Our UV curing adhesives can be modified, or customized in an effort to assist the customer with their specific application needs.

Product	Fixed Time	Water Absorp. 2 hrs. @ 100C	Viscosity	Durometer Hardness	Linear Shrinkage	Temp. Range
MP5320880	11 seconds	2.4%	1200-1800 cp	D14	1.40%	-60 to 300 F
MP5320910	11 seconds	3.9%	25000-40000 cp	D17	1.80%	-60 to 300 F
MP5320920	11 seconds	4.3%	1800-2600 cp	D14	1.80%	-60 to 300 F

Potting Applications

The **MP 530000 P** family of products are high performance UV curing adhesives engineered to bond a wide range of plastics, glass, and metals. This UV curing adhesive is a leading performer when used for dome coating and potting applications. Our UV curing adhesives can be modified, or customized in an effort to assist the customer with their specific application needs.

Product	Fixed Time	Water Absorp. 2 hrs. @ 100C	Viscosity	Durometer Hardness	Tensile Strength PSI	Temp. Range
MP531192P	0.5 seconds	5.0%	180-260 cp	D70	4400	-60 to 300 F
MP531193P	0.5 seconds	5.0%	2000-4000 cp	D70	5100	-60 to 300 F



Adhesive Systems, Inc.

General Industry

The **MP 530000 I** family of products are high performance UV curing adhesives engineered to bond a wide range of plastics, glass, and metals. This UV curing adhesive is a leading performer when used for general industrial applications. Our UV curing adhesives can be modified or customized in an effort to assist the customer with their specific application needs.

Product	Fixed Time	Water Absorp. 2 hrs. @ 100C	Viscosity	Durometer Hardness	Lap Shear Strength PSI Polycarb. to Polycarb.	Temp. Range
MP531001I	1 second	4.7%	300-400 cp	D30	760	-60 to 300 F
MP531002I	1 second	4.7%	500-100 cp	D30	810	-60 to 300 F
MP531003I	1 second	4.7%	3500-5500 cp	D30	860	-60 to 300 F
MP531004I	1 second	4.7%	300-400 cp	D30	760	-60 to 300 F
MP531005I	1 second	4.7%	500-100 cp	D30	810	-60 to 300 F
MP531006I	1 second	4.7%	2800-4000 cp	D30	860	-60 to 300 F
MP531009I	1 second	4.7%	600-1000 cp	D30	1050	-60 to 300 F
Product	Fixed Time	Water Absorp. 2 hrs. @ 100C	Viscosity	Durometer Hardness	Tensile Strengths PSI	Temp. Range
MP531101I	0.5 seconds	3.0%	110-170 cp	D72	5800	-60 to 300 F
MP531102I	0.5 Seconds	3.0%	180-270 cp	D70	4400	-60 to 300 F
MP531103I	0.5 seconds	3.0%	300-400 cp	D70	3650	-60 to 300 F
MP531104I	0.5 seconds	3.0%	440-550 cp	D65	3450	-60 to 300 F
MP531105I	0.5 seconds	3.0%	3000-5000 cp	D70	3570	-60 to 300 F
MP531106I	0.5 seconds	3.0%	110-170 cp	D72	5800	-60 to 300 F
MP531107I	0.5 seconds	3.0%	180-270 cp	D70	4400	-60 to 300 F
MP531108I	0.5 seconds	3.0%	280-400 cp	D70	3650	-60 to 300 F
MP531109I	0.5 seconds	3.0%	440-550 cp	D65	3450	-60 to 300 F
MP531110I	0.5 seconds	3.0%	3000-5000 cp	D70	3600	-60 to 300 F
MP531201I	0.5 seconds	0.7%	22000-37000 cp	D35	Tg at 30C	-60 to 300 F

Clamshell Application

The **MP 530000 S** family of products are high performance UV curing adhesives engineered to bond a wide range of plastics. This UV curing adhesive is a leading performer when used for bonding PET, PVC, Clamshell Packaging, and general industrial applications. Our UV curing adhesives can be modified, or customized in an effort to assist the customer with their specific application needs.

Product	Fixed Time	Water Absorp. 2 hrs. @ 100C	Viscosity	Durometer Hardness	Lap Shear Strength PSI Polycarb. to Polycarb.	Temp. Range
MP531001S	1 second	4.7%	300-400 cp	D30	755	-60 to 300 F
MP531002S	1 second	4.7%	500-1000 cp	D30	810	-60 to 300 F
MP531003S	1 second	4.7%	3500-5500 cp	D30	860	-60 to 300 F
MP531004S	1 second	4.7%	300-400 cp	D30	755	-60 to 300 F
MP531005S	1 second	4.7%	500-1000 cp	D30	810	-60 to 300 F
MP531006S	1 second	4.7%	2800-4000 cp	D30	860	-60 to 300 F

Dome Coating Application

The **MP 530000 D** family of products are high performance UV curing adhesives engineered to bond a wide range of plastics and metals. This UV curing adhesive is a leading performer when used for general industrial applications. Our UV curing adhesives can be modified or customized in an effort to assist the customer with their specific application needs.

Product	Fixed Time	Water Absorp. 2 hrs. @ 100C	Viscosity	Durometer Hardness	Tensile Strengths PSI	Temp. Range
MP531824D	0.5 seconds	2.1%	1800-2600 cp	D75	8000	-60 to 300 F
MP531825D (higher clarity)	0.5 seconds	2.1%	1800-2600 cp	D75	8000	-60 to 300 F
MP531811D	0.5 seconds	2.1%	1800-2600 cp	D75	8000	-60 to 300 F
MP531812D	0.5 seconds	1.6%	1500-2400 cp	D80	7950	-60 to 300 F
MP532827D	0.5 seconds	2.1%	2500-3900 cp	D75	7900	-60 to 300 F

Electronic Applications

The **MP 530000 E** family of products are high performance UV curing adhesives engineered to bond a wide range of metals and plastics. This UV curing adhesive is a leading performer when used for bonding electronic and general industrial applications. Our UV curing adhesives can be modified, or customized in an effort to assist the customer with their specific application needs.

Product	Fixed Time	Water Absorp. 2 hrs. @ 100C	Viscosity	Durometer Hardness	Lap Shear Strength PSI Polycarb. to Polycarb.	Temp. Range
MP531001E	1 second	4.7%	300-400 cp	D30	755	-60 to 300 F
MP531002E	1 second	4.7%	500-1000 cp	D30	810	-60 to 300 F
MP531003E	1 second	4.7%	3500-5500 cp	D30	860	-60 to 300 F
MP531004E	1 second	4.7%	300-400 cp	D30	755	-60 to 300 F
MP531005E	1 second	4.7%	500-1000 cp	D30	810	-60 to 300 F
MP531006E	1 second	4.7%	2800-4000 cp	D30	860	-60 to 300 F

Glass Application

The **MP 530000 G** family of products are high performance UV curing adhesives engineered to bond a wide range of glass and metals. This UV curing adhesive is a leading performer when used for glass bonding applications. Our UV curing adhesives can be modified or customized in an effort to assist the customer with their specific application needs.

Product	Fixed Time	Water Absorp. 2 hrs. @ 100C	Viscosity	Durometer Hardness	Tensile Strengths PSI	Temp. Range
MP531050G	5 seconds	2.7%	100-175 cp	D72	6200	-60 to 300 F
MP531051G	3 seconds	2.7%	250-350 cp	D72	3500	-60 to 300 F
MP531052G	3 seconds	2.7%	450-850 cp	D72	3500	-60 to 300 F
MP531053G	3 seconds	2.7%	1200-2000 cp	D72	3650	-60 to 300 F
MP531054G	2 seconds	2.0%	1400-2200 cp	D74	3750	-60 to 300 F
MP531081G	1 second	3.2%	4000-9000 cp	D74	6100	-60 to 300 F
MP531084G	1 second	3.2%	GEL	D74	2950	-60 to 300 F

We supply UV light sources. Please contact techcenter@instantca.com or call 800-552-0299 to find the UV light source applicable for use with our UV products!



Adhesive Systems, Inc.



**Our UV Adhesives
can be used in a
wide variety of
applications!**

UVCS CURING SYSTEMS UV CURING SYSTEMS

Whether your application requires a hand held unit or a conveyor system **Adhesive Systems** has the curing equipment to meet your specific application needs and requirements. These systems provide durable, long lasting performance, that maximizes the efficiency of your assembly process. Whether your application is several parts at a time or several thousand we have a system for you.

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Benefits of using our light curing system and uv curing adhesives:

- Easy to use, operate, and set up
- Allows for in line production, no stack offs
- Eliminate the need for secondary curing systems
- Faster cycle times
- Complete, reliable curing
- Cost effective



UVCS 1000 HAND HELD FLOOD SYSTEM

- Easy to use
- Versatile portable curing system
- Durable and reliable system
- Idea for small or large areas
- Fast, deep curing
- High intensity 500mW/cm²



UVCS 2000FS FLOOD SYSTEM

- High Intensity
- Large curing area
- Use as a bench top system
- Conveyor compatible
- Versatile system
- Dependable, long lamp life



UVCS 5000 SC SPOT CURE SYSTEM

- Easy to use
- Hand held or can be mounted
- 100 Watt Long Life Mercury Lamp
- High Intensity Wand System
- Low temperature output
- Solid state, constant power
- Safety interlock
- Foot pedal operated.

Adhesive Systems, Inc. offers a complete on hands approach to meet your assembly needs and requirements. In plant demonstrations are available upon request, as well as a free lab service to fully evaluate your application to make product recommendations and to select the uv curing system that will best fit your application. Custom and modified systems (wider, taller, shorter, faster, etc) are available upon request. **Adhesive Systems, Inc.** also has a complete line of dispensing systems for one and two component adhesives. Always wear eye and skin protection when using uv curing systems.



CONVEYOR CURING SYSTEMS

UVCS 6000 BTCON (bench top)
UVCS 6100 SACON (stand alone)

- Ideal for high production volumes
- Variable speed motor
- Single or dual lamp system
- Adjustable belt speed
- Adjustable lamp height
- Digital speed read out
- Emergency stop switch