

MAXIMUM PERFORMANCE SERIES

One and Two Part Epoxies

The **MP 5400 SERIES** offers a complete line of one and two part epoxies for structural bonding, potting, and encapsulating applications. These products offer engineers maximum design versatility by providing the following features and benefits:

- Superior bond strengths
- Dependable performance
- Excellent aging and weathering properties
- Good impact and vibration resistance
- Good resistance to high temperature and humidity
- Versatile, bonds a wide range of similar and dissimilar materials
- Cure at room temperature or can be accelerated with heat
- Solvent free
- Good gap filling characteristics
- Wide range of products that provide cure speeds, viscosities, and performance properties, to meet specific requirements
- Improves finished product quality
- Replaces mechanical fastening devices
- Lowers cost





The **MP 5400 SERIES** represents the most comprehensive family of products to meet your application requirements. They are conveniently packaged in 50 mil, and 400 mil dual syringe cartridges. This takes all the guess work out of using two component materials. This offers significant benefits for production personnel:

It's Already Done!

- No mixing, measuring, or weighing...
- No contact with material.
- No mess.
- No waste.
- Easy to use, right from the cartridge.
- Saves valuable production time.
- No clean up.



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www.instantca.com

Adhesive Systems, Inc.

	RATIO	VISCOSITY	COLOR	WORK LIFE (MINUTES)	SHEAR STRENGTH PSI	DIELECTRIC STRENGTH	TEMPERATURE RESISTANCE
MP 5400 SERIES, Maximum Performance Epoxies — 2 Part Adhesives							
MP 5405 General purpose fast setting, 5 minute worklife epoxy. Forms a rigid bond, machinable, clear, flowable, low odor material.	1 to 1	12,500	Clear	3-5 Min.	2,000-4,000 psi	400 Volts/Mils	-60° F to 250° F
MP 5405BK General purpose fast setting, 5 minute worklife epoxy. Forms a rigid bond, machinable, black, flowable, low odor material.	1 to 1	13,000	Black	3-5 Min.	2,000-4,000 psi	400 Volts/Mils	-60° F to 250° F
MP 5405NS General purpose, non sag material. Ideal for applications that require maximum gap filling or high viscosity epoxy. Fast setting, 5 minute worklife, clear.	1 to 1	90,000	Clear	3-5 Min.	2,000-4,000 psi	400 Volts/Mils	-60° F to 250° F
MP 5405 FLEX MV Rubber toughened, good impact resistance, flexibility and peel strength.	1 to 1	40,000	Opaque/Tan	5 Min.	2,000-4,000 psi	400 Volts/Mils	-60° F to 250° F
MP 5430 General purpose, 20 minute worklife. Amber color, forms a rough, rigid bond.	1 to 1	13,000	Amber	20-30 Min.	2,000-4,000 psi	400 Volts/Mils	-60° F to 250° F
MP 5430 FLEX MV Rubber toughened, good impact resistance, flexibility and peel strength.	1 to 1	40,000	Opaque/Tan	5 Min.	2,000-4,000 psi	400 Volts/Mils	-60° F to 250° F
MP 54110 Fast curing, flexible, excellent weather resistance, bonds well to glass, metal, and plastic. Resist fuel and solvent environments, with good impact resistance.	1 to 1	45,000	Amber	9-12 Min.	2,000-4,000 psi	400 Volts/Mils	-60° F to 250° F
MP 54110GR Fast curing, good impact resistance and peel strength. Excellent for metal bonding or metal to dissimilar surfaces. Gray in color.	1 to 1	45,000	Gray	9-12 Min.	2,000-4,000 psi	400 Volts/Mils	-60° F to 250° F
MP 54125 Good peel strength, higher temperature resistance, medium open time for part adjustment and alignment.	1 to 1	48,000	Translucent	25 Min.	2,000-4,000 psi	400 Volts/Mils	-60° F to 250° F
MP 54125QR Gray color makes it ideal for aluminum and metal bonding. Flexible, toughened epoxy, with good impact resistance.	1 to 1	47,000	Gray	25 Min.	2,000-4,000 psi	400 Volts/Mils	-60° F to 250° F
MP 54190 Long work life, with good peel strength. Maximum adjustment and positioning time.	1 to 1	15,000	Translucent	70-100 Min.	3,300-4,000 psi	400 Volts/Mils	-60° F to 250° F
MP 54190QR Toughened epoxy, with good peel strength, impact resistance, and open time. Bonds metals, plastics, and many dissimilar materials. Gray in color.	1 to 1	60,000	Gray	70-100 Min.	3,300-4,000 psi	400 Volts/Mils	-60° F to 250° F



RATIO VISCOSITY COLOR WORK LIFE (MINUTES) SHEAR STRENGTH PSI DIELECTRIC STRENGTH TEMPERATURE RESISTANCE

MP 5400 SERIES, Maximum Performance Epoxies (continued)							
MP 54270 Potting compound for electronic applications. Non corrosive material, with good worklife.	1 to 1	20,000	Clear	60 Min.	1,800-3,000 psi	550 Volts/Mils	-60° F to 250° F
MP 54270BK Long worklife potting compound ideal for tamper proofing electronic assemblies. Non corrosive with good flow properties, black color.	1 to 1	20,000	Black	60 Min.	1,800-3,000	550 Volts/Mils	-60° F to 250° F
MP 54420 High performance epoxy, excellent shear and peel strength. High viscosity for maximum gap filling.	2 to 1	43,000	Off-White	20-30 Min.	4,000-5,000	500 Volts/Mils	-60° F to 300° F
MP 54421 High performance epoxy, excellent shear and peel strength. High viscosity for maximum gap filling.	1 to 1	43,000	Off-White	20-30 Min.	4,000-5,000	500 Volts/Mils	-60° F to 250° F
MP 54460 High performance epoxy, high peel and shear strength. Longer worklife.	2 to 1	40,000	Off-White	50 Min.	4,000-5,000	500 Volts/Mils	-60° F to 250° F
MP 54216CL Long worklife, flexible epoxy. Bonds dissimilar materials, 18 hour fixture times.	1 to 1	10,000	Translucent	120 Min.	2,500-5,000	500 Volts/Mils	-60° F to 250° F
MP 54750 Versatile epoxy used for bonding and potting applications. Excellent resistance to water, acids, bases, and most organic solvents.	1 to 1	12,000	Clear	120 Min.	7,500	400 Volts/Mils	-60° F to 250° F

Packaging: MP 5400 Series Two Part Epoxies are available in 50 kits, 400 mil kits, and 10 gallon kits. Special packaging is available upon request.

RATIO SPECIFIC GRAVITY VISCOSITY COLOR HEAT CURE CYCLE TENSILE STRENGTH SHEAR STRENGTH PSI HARDNESS SHORE D TEMP RANGE

MP 5400 SERIES, Maximum Performance Epoxies (continued)									
MP 5400 One part, heat cure, non-sag, structural adhesive. Ideal for bonding magnets, steel, aluminum, glass, some plastics, etc.	1 Part	1.41	Paste	Gray	@250° F - 15 Min. @300° F - 10 Min. @350° F - 2 Min.	6,400	3,100	85 Shore D	-40 to 400° F
MP 5401 One part, heat cure, forms a tough, durable bond. Excellent high performance at elevated temperatures and superior sag control.	1 Part	1.41	Paste	Gray	@250° F - 15 Min. @300° F - 10 Min. @350° F - 2 Min.	6,770	3,200	85 Shore D	-40 to 400° F
MP 5403 FLEX One part, heat cure formulated to provide excellent impact and shock resistance. Ideal for bonding dissimilar surfaces.	1 Part	1.35	Paste	Gray	@250° F - 15 Min. @300° F - 10 Min. @350° F - 2 Min.	6,400	3,100	45 Shore D	-40 to 400° F
MP 5404FS One part heat cure that cures rapidly. Cures in seconds by induction or infra-red heating.	1 Part	1.41	Paste	Gray	@250° F - 15 Min. @300° F - 10 Min. @350° F - 2 Min.	6,770	3,200	85 Shore D	-40 to 400° F

Packaging: MP 5400 Series One Part Epoxies are available in 6 ounce cartridges, 12 ounce cartridges and 5 gallon pails. Special packaging is available upon request.

Adhesive Systems, Inc.

MAXIMUM PERFORMANCE

STRUCTURAL BONDING

THE BENEFITS

- SUPERIOR BOND STRENGTHS**
- TOUGH, DURABLE BONDS**
- IMPROVE FINISHED PRODUCT QUALITY**
- EXCELLENT AGING AND WEATHERING**
- GOOD IMPACT AND VIBRATION RESISTANCE**
- ELIMINATE MECHANICAL FASTENING DEVICES**
- COST EFFECTIVE**

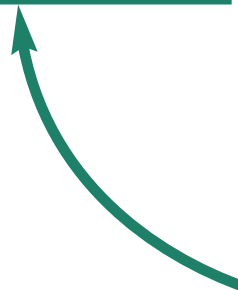


CE MP55000 SERIES

G METHACRYLATES

FITS!

ELIMINATES PRE DRILLING
RESIST TEMPERATURE EXTREMES AND THERMO CYCLING
BONDS SIMILAR AND DISSIMILAR MATERIALS
FULL RANGE OF WORK TIMES AND CURE TIMES
ROOM TEMPERATURE CURE
STRONGER, LIGHTER FINISHED ASSEMBLIES



STRUCTURAL ADHESIVES



MAXIMUM PERFORMANCE SERIES

Two Part Methacrylates

Interested in products that offer you the latest in technology and a cost effective approach in evaluating your application? Call 1-800-552-0299 to arrange a visit at your facility.

Tech Tip

The **MP 55000 SERIES** is a complete family of two part methacrylate adhesives. These products are specifically engineered for structural bonding of nearly all thermoplastics, metals, and composite materials. They offer exceptional bond strength and are extremely durable adhesives.

The **MP 55000 SERIES** provides outstanding performance in a wide range of applications in the transportation, solid surface, industrial, construction, and marine market areas.





	RATIO	COLOR	VISCOSITY	WORK TIME	FIXTURE TIME	ALUMINUM	STEEL	FIBERGLASS	ACRYLIC	SMC	ABS	TEMPERATURE RESISTANCE
MP 55000 SERIES, Maximum Performance Methacrylates—Two Part Methacrylate												
MP 55300 General purpose used for bonding plastics and metal components. Fast cure time for high speed assembly.	1 to 1	Straw	Non-Sag	6-8 Min.	10-15 Min.	2,450	3,750	S-F	S-F	S-F	S-F	-55° F to 225° F
MP 55300HV High viscosity version of MP 55300.	1 to 1	Straw	120,000 cps	6-8 Min.	10-15 Min.	2,450	3,750	S-F	S-F	S-F	S-F	-55° F to 225° F
MP 55305 High impact resistance for metals and plastics. Tough, flexible adhesive with a fast cure time for high speed assembly.	1 to 1	Straw	Non-Sag	2-3 Min.	5-6 Min.	2,450	3,750	S-F	S-F	S-F	S-F	-55° F to 225° F
MP 55305HV High viscosity version of MP 55305.	1 to 1	Straw	Non-Sag	2-3 Min.	6-10 Min.	2,450	3,750	S-F	S-F	S-F	S-F	-55° F to 225° F
MP 55310 Excellent metal bonder with good results on plastics as well. Medium cure speed for part positioning and adjustment.	1 to 1	Straw	Non-Sag	10-18 Min.	20-35 Min.	3,700	4,200	S-F	S-F	S-F	S-F	-55° F to 225° F
MP 55310HV High viscosity version of MP 55310.	1 to 1	Straw	Non-Sag	10-18 Min.	20-35 Min.	3,700	4,200	S-F	S-F	S-F	S-F	-55° F to 225° F
MP 55320 High performance bonding, metal, aluminum, composite materials, FRP, wide range of plastics. Tough durable bonds with excellent aging and weathering properties.	10 to 1	Straw	Non-Sag	8-12 Min.	25-30 Min.	3,700	4,200	S-F	S-F	S-F	S-F	-55° F to 225° F
MP 55330 High impact, maximum flexibility and elongation. High tensile shear strength. Fast cure speed.	1 to 1	Straw	Non-Sag	25-30 Min.	40-60 Min.	3,700	4,200	S-F	S-F	S-F	S-F	-55° F to 225° F
MP 55350 Long open time with good worklife. Bonds well to most plastics, composites, and metals.	1 to 1	Straw	Non-Sag	30-40 Min.	60-90 Min.	2,350	3,200	S-F	S-F	S-F	S-F	-55° F to 225° F
MP 55350HV High viscosity version of MP 55350.	1 to 1	Straw	Non-Sag	30-40 Min.	60-90 Min.	2,350	3,200	S-F	S-F	S-F	S-F	-55° F to 225° F
MP 55395 Excellent overall performance properties, tough, durable, bonds, used on large structures where long open times are required.	1 to 1	Gray	Non-Sag	60-70 Min.	150-200 Min.	3,700	4,200	S-F	S-F	S-F	S-F	-55° F to 225° F
MP 55420 High performance bonding, metal, aluminum, composite materials, FRP, wide range of plastics. Tough durable bonds with excellent aging and weathering properties.	10 to 1	Straw	Non-Sag	4-6 Min.	12-18 Min.	3,300	4,200	S-F	S-F	S-F	S-F	-55° F to 225° F
MP 55420FS Fast Curing version of MP 55420.	10 to 1	Straw	Non-Sag	2-4 Min.	5-8 Min.	3,700	4,200	S-F	S-F	S-F	S-F	-55° F to 225° F
MP55420SC Slow Curing version of MP 55420.	10 to 1	Straw	Non-Sag	8-12 Min.	25-30 Min.	3,700	4,200	S-F	S-F	S-F	S-F	-55° F to 225° F

Fixture and cure times are measured at 75C. Products designated as FS, HV, and/or colored products, may require a minimum order.

Products are conveniently packaged in 50 mil and 400 mil mix packs. No weighing or manual mixing is needed. This convenient packaging minimizes production personnel coming in contact with the adhesive. Ten gallon kits are available for automated applications. Special packaging is available upon request. 200ml, 250ml, 380ml, coaxial, and universal cartridges.