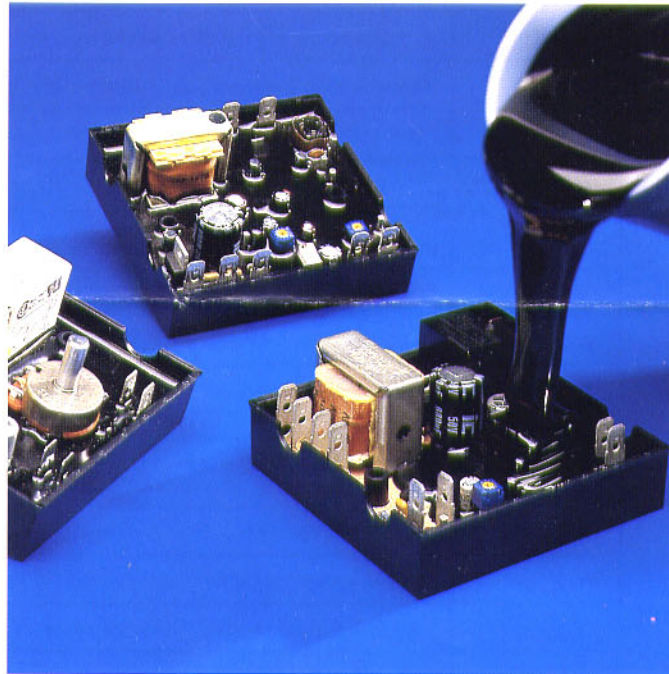


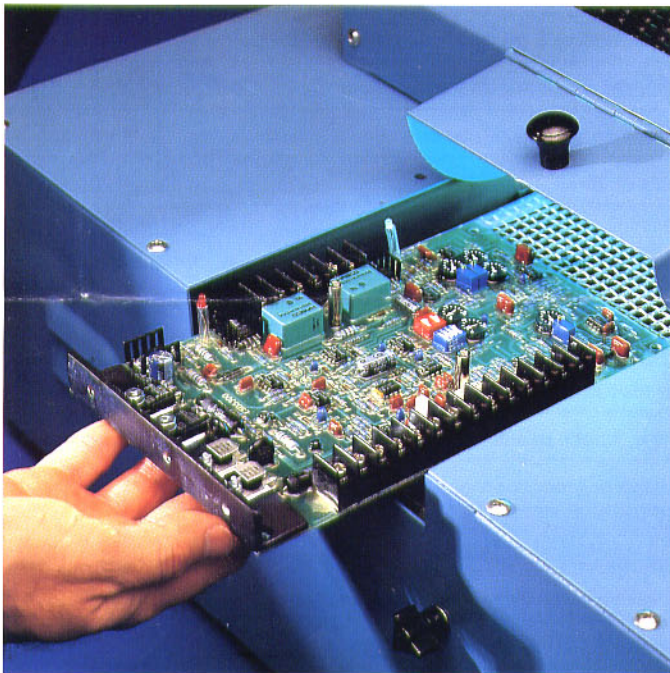


PRODUCT SELECTOR GUIDE

EPOXY □ URETHANE □ SILICONE FORMULATIONS



Potting with electrically insulating epoxy compound.



Protective UV Curable Coating.



Bonding components with electrically conductive epoxy.

PRODUCT SELECTOR GUIDE

*Our
Commitment &
Pledge*

Epoxies, Etc... takes great pride in our commitment to the research, development, and manufacturing of innovative epoxy, urethane, and silicone systems.

We recognize that you, the customer, is the most important part of our business. We pledge to provide a superior level of service, manufacture reliable quality products, and develop innovative solutions for industry.

Epoxies, Etc... is deeply dedicated to maintaining the highest product and customer satisfaction--- should you have a suggestion, praise, or comment we would like to hear from you.

Thank you,



10-0000 Adhesive Series		Catalyst
10-3003	Clear high bond strength epoxy adhesive & sealant. Adjustable flexibility.	10-3003C
10-3004	Low viscosity version of 10-3003. Fast wetting out of substrates.	10-3004C
10-3005	Fast 5 minute cure adhesive. Excellent for fixturing & sealing. 1:1 ratio.	10-3005C
10-3012	30 minute cure, crystal clear adhesive. Easy 1:1 mix ratio.	10-3012C
10-3013	Instant setting cyanoacrylate. Bonds metal, plastic, & rubber.	No Cat.
10-3050	Color coded, two part, non-sag, gel adhesive. Will not run.	10-3050C
20-0000 Potting, Encapsulating, and Casting Series		
20-2100	Flexible urethane elastomer system. Impact & vibration resistant.	10
20-2100 FR	Flame retardant version of 20-2100.	10
20-2145	Unfilled flexible urethane system. Excellent for thermal cycling extremes.	20-2145C
20-2028	Two part rigid closed cell polyurethane foam. 11 lb. per cubic ft. density.	20-2028C
20-3001	Low viscosity, fast curing, easy 1:1 ratio epoxy potting system. Unfilled.	20-3001C
20-3035	Low density epoxy. Noted for its' low shrinkage & low CTE.	140
20-3060	Popular low viscosity potting & encapsulating system. Glass finish.	150
20-3064	Flexible epoxy. Ideal for thermal cycling & potting delicate components.	5
20-3065	Very low viscosity epoxy. Versatile system for many applications.	105
20-3146	Two part epoxy system reinforced with fiberglass for large unit casting.	20-3146C
20-3210	Maximum in electrical insulation properties with room temp. or heat cure.	190
20-3238	Crystal clear optical grade epoxy with fast cure. Excellent for inspection.	140
20-3239	High heat resistant epoxy potting & encapsulating compound.	179
20-3300	High temperature & thermal shock resistant epoxy. Ideal for high voltage.	20-3300C
20-3651	Excellent electrical insulating system. Good operating temp. range.	190
20-3651 FR	Flame retardant version of 20-3651.	240
40-0000 Electrically Conductive Series		
40-3900	Two part silver filled epoxy adhesive. Convenient 1:1 mix ratio.	40-3900C
40-3905	Two part silver filled epoxy. Easily thinned for EMI & FRI shielding.	40-3905C
40-3915	One component silver filled microelectronic grade die attach epoxy.	One part
40-3920	One component, flexible, screen printable silver conductive ink coating.	One part
40-3925	One part silver conductive polymer coating. Dip, spray, or brush.	One part
50-0000 Thermally Conductive Series		
50-3100	High thermal transfer epoxy resin. Outstanding electrical insulator.	190
50-3100 FR	Flame retardant version of 50-3100. Meets requirements of UL 94 VO.	190
50-2900 FR	Flexible, flame retardant urethane. Excellent for high thermal shock.	10
50-3120	One component thermally conductive thixotropic epoxy adhesive.	One part
50-3182	Thermally conductive epoxy system with excellent electrical properties.	190

Handling Properties			Physical Properties			Thermal Properties			Electrical Properties			
Mix Ratio By Weight Parts Catalyst to Resin	Mixed Viscosity cps, 25 °C	Cure Schedule Hrs./°C	Hardness Shore 25°C	Specific Gravity 25°C	Tensile Strength psi ASTM D638	Thermal Conductivity Btu-in/Ft ² ·hr·°F	Thermal Expansion Coefficient Per °C	Operating Temperature °C	Dielectric Strength Volts/Mil	Dielectric Constant 60 Hz ASTM D150	Dissipation Factor 60 Hz ASTM D-150	Volume Resistivity ohm-cm ASTM D-257
100	15,000	24/25°	75D	1.24	10,500	3.0	50 x 10 ⁻⁶	-50 to +150	550	3.11	.02	1.1 x 10 ¹⁵
100	5,000	24/25°	73D	1.20	9,750	2.9	50 x 10 ⁻⁶	-50 to +150	550	3.12	.02	1.1 x 10 ¹⁵
100	12,000	5 Min.	70D	1.15	2,805	2.0	53 x 10 ⁻⁶	-55 to +150	380	4.0	.017	2.0 x 10 ¹⁴
100	5,000	2/25°	83D	1.10	2,250	3.0	45 x 10 ⁻⁶	-40 to +100	600	3.11	.02	1.1 x 10 ¹⁵
No Cat	100	2-5 Sec.	85A	1.10	3,200			-20 to +85				
100	Paste	24/25°	75D	1.40	8,000	4.1	49 x 10 ⁻⁶	-60 to +160	485	0.01	.015	4.0 x 10 ¹⁴
20	1,600	12/25°	45A	1.50	1,600	4.5	15 x 10 ⁻⁵	-55 to +130	630	4.1	.049	3.4 x 10 ¹³
20	8,000	12/25°	50A	1.40	1,600	4.5	15 x 10 ⁻⁵	-55 to +130	630	4.1	.049	3.4 x 10 ¹³
100	1,300	16/25°	45A	1.07	820	2.8	15 x 10 ⁻⁵	-50 to +125	540	3.0	.031	1.8 x 10 ¹⁵
100	250	10 Min	Foam	1.23	60	0.3		-50 to +150				
100	1,000	24/25°	73D	1.12	5,700	3.0	50 x 10 ⁻⁶	-50 to +150	558	4.7	.034	5.0 x 10 ¹⁵
23	1,800	18/25°	80D	0.70	5,300	1.2	43 x 10 ⁻⁶	-40 to +130	380	2.3	.03	1.0 x 10 ¹³
17	10,000	24/25°	82D	1.52	10,000	3.0	22 x 10 ⁻⁶	-50 to +135	460	4.51	.01	4 x 10 ¹⁴
100	40,000	24/25°	60A	1.40	5,500	3.0	70 X 10 ⁻⁶	-70 to +100	400	3.3	.03	5.0 x 10 ¹⁵
8	6,000	2/100°	89D	1.56	7,000	4.5	22 x 10 ⁻⁶	-70 to +180	460	4.52	.01	4 x 10 ¹⁴
100	31,000	2/145°	90D	1.56	11,000	4.5	45 x 10 ⁻⁶	-70 to +250	460	4.5	.01	2.0 x 10 ¹⁴
6-7	50,000	10/25°	85D	1.50	9,500	4.5	41 x 10 ⁻⁶	-70 to +180	460	4.7	.025	4.0 x 10 ¹⁶
30	500	12/25°	78D	1.11	9,400	2.9	50 x 10 ⁻⁶	-50 to +150	560	4.7	.034	5.0 x 10 ¹⁵
11	50,000	12/177°	96D	2.30	9,800	9.6	27 x 10 ⁻⁶	-65 to + 265	410	4.3	.007	3.3 x 10 ¹⁵
100	12,000	2/145°	87D	1.65	7,500	4.0	38 x 10 ⁻⁶	-70 to +260	450	4.0	.01	3.3 x 10 ¹⁵
6-7	22,000	16/25°	88D	1.65	9,000	4.6	40 x 10 ⁻⁶	-65 to +160	450	4.8	.02	5.0 x 10 ¹⁵
15	2,000	12/25°	85D	1.50	9,500	4.5	40 x 10 ⁻⁶	-70 to +180	460	4.7	.025	4.0 x 10 ¹⁶
100	Paste	24/25°	85D	2.80	9,450	100	25 x 10 ⁻⁶	-50 to +170	Electrically			1.0 x 10 ⁻⁴
5	Paste	18/25°	85D	2.80	9,500	105	26 x 10 ⁻⁶	-50 to +165	Conductive			1.0 x 10 ⁻⁴
No Cat	Paste	1/25°	80D	2.90	12,000	90	26 x 10 ⁻⁶	-50 to +170	Conductive			6.5 x 10 ⁻⁴
No Cat	15,000	10Min/100	Flexible	1.50	4,000	17.1	26 x 10 ⁻⁶	-65 to +200	Conductive			1.5 x 10 ⁻²
No Cat	100	2/25°	75D	1.50	6,500	16.0	26 x 10 ⁻⁶	-30 to +140	Conductive			1.6 x 10 ⁻⁴
5	55,000	10/25°	90D	1.90	8,800	15	30 x 10 ⁻⁶	-60 to +200	485	6.4	.015	1.5 x 10 ¹⁵
5	55,000	10/25°	90D	1.90	8,800	15	30 x 10 ⁻⁶	-60 to +200	485	6.4	.015	1.5 x 10 ¹⁵
20	7,120	24/25°	70A	1.34	1,600	10	50 x 10 ⁻⁶	-65 to +130	480	5.6	.019	1.5 x 10 ¹⁴
No Cat	Paste	30Min/150°	80D	1.85	7,500	8.0	32 x 10 ⁻⁶	-60 to +165	460	5.2	.02	1.0 x 10 ¹⁴
3-4	90,000	24/25°	95D	2.30	8,500	11.5	30 x 10 ⁻⁶	-55 to +205	560	6.4	.018	4.9 x 10 ¹⁶

60-0000 UV CURABLE SERIES		Viscosity cps, 25°C	Cure Schedule	Specific Gravity 25°C	Hardness Shore 25°C	Operating Temperature °C	Tensile Strength psi ASTM D638	Color
60-7010	Very low viscosity urethane acrylate. Its rapid self leveling feature makes it a popular coating & sealant.	500	5 Seconds @ 300 Watts\Inch	1.08	70D	-50 to +150	2,500	Clear
60-7011	Ultra clear flexible epoxy. Excellent impact & vibration resistance. Will not yellow upon aging.	2,000	10 Seconds @ 300 Watts\Inch	1.09	45D	-50 to +150	3,000	Clear
60-7012	Epoxy acrylate potting, coating, sealant, & adhesive compound. Excellent for deep section curing. Good electrical insulator.	2,500	90 Seconds @ 300 Watts\Inch	1.14	70D	-55 to +175	6,000	Clear
60-7013 FR	Flame retardant epoxy acrylate. Used as a potting, coating, sealant & adhesive for electrical and electronic applications.	4,000	60 Seconds @300 Watts\Inch	1.14	70D	-55 to +175	6,000	Clear
60-7014	Non-sag thixotropic version of 60-7012. Ideal for sealing, coating and bonding. Will not run.	Paste	90 Seconds @ 300 Watts\Inch	1.14	70D	-55 to +175	6,000	Clear
60-7015	Medium viscosity, very fast curing urethane acrylate system. May be cured with low intensity black light.	4,000	1 Second @ 300 Watts\Inch	1.08	72D	-50 to +155	6,500	Clear
60-7155	Low viscosity modified epoxy system. Designed to cure with low or high intensity light. Outstanding cured glass like finish.	1,000	15 Minutes With Black Light	1.09	60D	-50 to +155	8,000	Clear
60-7170	Higher viscosity version of 60-7155. Used primarily as an adhesive and encapsulant. Ultimate in clarity. Will "shadow" cure.	4,500	15 Minutes With Black Light	1.09	60D	-50 to +155	8,000	Clear
ONE COMPONENT EPOXIES								
10-3170	Self leveling adhesive, sealant, & potting compound. Good heat resistance and electrical insulating properties.	120,000	15 Minutes @ 175°C	1.1	85D	-50 to +175	4,000	Yellow
10-3780	Fast curing high strength adhesive that exceeds the requirements of MM-A-132 Type II. Excellent thermal stability.	800,000	15 Minutes @ 175°C	1.38	90D	-50 to +200	6,400	Gray
10-3782 10-3783 10-3784	Very fast curing series available in 3 viscosities. Outstanding heat & chemical resistance. Ideal for potting and filter caps.	25,000 60,000 Paste	2 Minutes @ 175°C	1.49	80D	-50 to +180	4,000	Gray
10-3785	Semi-rigid general purpose adhesive. Bonds well to metals, ceramics, & plastics.	375,000	15 Minutes @ 175°C	1.33	75D	-55 to +170	4,100	Gray
10-3787	Fast curing high strength thixotropic adhesive. Fast cure at low temperatures. Will not sag during cure.	Paste	5 Minutes @ 175° C	1.38	75D	-55 to +170	4,200	Gray
10-3788	Flexible, non-sag adhesive. Excellent resistance to moisture, chemicals, and automotive fluids.	90,000	5 Minutes @ 175° C	1.17	45D	-60 to +165	3,500	Gray