MASTER BOND MEDICAL PRODUCT SELECTOR GUIDE

Selected Adhesives, Sealants, Coatings, Encapsulants & Potting Compounds Specially Formulated for Medical Applications
Partial Listing Only — Other Grades Available

Two Component Epoxies —

Master Bond Grade	Mix Ratio by weight	Color Code	Mixed Viscosity RT, cps	Set-Up Time Minutes, RT	Cure Schedule Temp/Time, °F	Service Temp Range, °F	Applications
EP21BAS	100/100	"A" off-white "B" off-white	>175,000	60-90	48-60 hrs @ RT 2-3 hrs @ 200°F	-60 to +250°F	Adhesive/sealant featuring radio-opacity. Used in medical and medical electronic applications.
EP21LV	100/100	"A" clear "B" amber	6,000-8,000	60-90	24-48 hrs @ RT 1-2 hrs @ 200℉	-60 to +250°F	Class VI approved general purpose adhesive, sealant & coating. High bond strength. Good chemical resistance.
EP21LV 3/5	60/100	"A" clear "B" amber	8,000-9,000	75-105	48-60 hrs @ RT 2-3 hrs @ 200°F	-80 to +250°F	Unique system. Combines Class VI certification and a flexible cure. Excellent adhesive, sealant & encapsulant.
EP21TDC-7	1/7	"A" clear "B" amber	120,000- 140,000	120-150	48-96 hrs @ RT 3-4 hrs @ 200℉	-100 to +250°F	High flexibility & strength adhesive for bonding most rubbers (nitrile, neoprene, natural, SBR), metals & plastics.
EP21TDCS MED	100/100	"A" silver "B" silver	smooth paste	25-30	24-36 hrs @ RT 1-2 hr @ 200℉	4°K to +250°F	Class VI certified. Silver filled. Low resistance. Superior physical properties. Widely used in medical electronics.
EP30AO	100/10	"A" off white "B" clear	15,000-20,000	30-40	24-36 hrs @ RT 1-2 hr @ 200℉	-60 to +250°F	Thermally conductive, electrically isolating system for potting & bonding. Lower viscosity for convenient handling.
EP30MED	100/25	"A" clear "B" clear	1,600-1,800	30-40	24-48 hrs @ RT 2-3 hrs @ 200°F	-60 to +250°F	Class VI, transparent, lower viscosity, for bonding, sealing, coating & potting. Good physical and electrical properties.
EP42HT	100/40	"A" clear "B" amber	8,000-10,000	35-45	24-36 hrs @ RT 2-3 hrs @ 150℉	-60 to +400°F	Class VI, resists repeated autoclaving, chemical sterilization, radiation and ETO. Also available in black.
EP45HT	100/30	"A" clear "B" brown	40,000-50,000	12-24 hrs	1 hr @ 150 ℉ plus 2-3 hrs @ 250-300 ℉	-80 to +450°F	Withstands repeated sterilization. Unsurpassed chemical & temperature resistance. <i>Requires a heat cure of 250-300°F</i> .
EP62-1 MED	100/10	"A" clear "B" brown	8,000-10,000	10-12 hrs	20-40 min @ 200°F 10-20 min @ 250°F	-60 to +400°F	Class VI system with long pot life & fast cures at elevated temperatures. Withstands repeated sterilization. <i>Requires a heat cure of 150-250°F</i> .
EP65HT-1	100/10	"A" clear "B" dark purple	60,000-70,000	3-5	20-30 min @ RT	-60 to +400°F	Ultra-fast setting, high strength system with superior temperature resistance and physical strength properties.

One Component Epoxies —

Master Bond Grade	Color	Shelf Life at 75°F	Viscosity RT, cps	Cure Schedule Temp/Time, °F	Service Temp Range, °F	Applications
EP3HTMED	tan or brown	6 months	200,000	5-10 min @ 300 °F 20-30 min @ 250 °F	-60 to +400°F	Class VI approved adhesive/sealant/encapsulant. Fast curing. Excellent physical strength profile. Resists various types of sterilization.
EP3RR-1	tan to light yellow	6 months	100,000- 120,000	10-15 min @ 300° 25-35 min @ 235°F	-80 to +400°F	Thermally conductive, electrically isolating, for potting and encapsulating, will cure up to 1" thick. Outstanding underfill material.
Supreme 10HT	gray	3 months in syringes 6 months in cans	>250,000	60 min @ 250℉ 35-45 min @ 300℉	4 °K to +400 °F	High strength adhesive/sealant. Superior temperature and chemical resistance. Convenient handling.
Supreme 10HT/S	silver	3 months in syringes 6 months in jars	paste	60 min @ 250°F 45 min @ 300°F	4°K to +400°F	Silver filled version of Supreme 10HT. Low resistance. Good physical strength properties. Widely used in medical electronics.

UV Curables —

Master Bond Grade	Color	Shelf Life At 75°F	Viscosity RT, cps	Hardness, Shore D	Service Temp Range, °F	Applications
UV10MED	transparent	3 months in all packaging	1,200	>60	-60 to +250°F	USP Class VI approved, low viscosity adhesive, sealant, coating & encapsulant. Good physical and electrical properties. Cures rigid.
UV15	light amber clear	3 months in syringes 6 months in bottles/cans	120-150	>70	-60 to +350°F	Low viscosity adhesive/sealant with superior temperature & chemical resistance. Cures rigid. Post curing at 75-125 ℃ enhances properties.
UV15-7	transparent	3 months in syringes 6 months in bottles/cans	1,400-1,800	65	-60 to +300°F	Excellent adhesive, sealant & encapsulant. Superb non-yellowing. Can cure over 1/8" thick. Exceptional bond strength to a variety of substrates.
UV15-7SP4	transparent	3 months in syringes 6 months in bottles/cans	800-1,500	40	-80 to +250°F	Low viscosity, flexible adhesive/sealant. High peel strength. Excellent non yellowing properties.
UV15-7TK1A	translucent	3 months in syringes 6 months in bottles/cans	paste	>70	-80 to +300°F	Paste version of UV15-7. Good dimensional stability. Superior adhesive/sealant properties. Good sterilization resistance.
UV15X-2	transparent	3 months in syringes 6 months in bottles/cans	6,000-8,000	>50	-80 to +250°F	Moderate viscosity, semi-flexible system. For bonding, sealing, and potting. Will cure over 1/4" deep, excellent thermal cycling properties.
UV15X-6	transparent	3 months in syringes 6 months in bottles/cans	20,000-25,000	35	-80 to +250°F	Class VI approved. Higher viscosity. Cures very flexible. Excellent durability & physical properties. Will bond to a wide variety of substrates.
UV18 MED	transparent	3 months in syringes 6 months in bottles/cans	1,800-2,000	55-60	-80 to +250°F	Class VI adhesive/sealant featuring superb chemical resistance. Withstands repeated thermal cycling.

Miscellaneous —

Master Bond Grade	Type of System	Color Code	Cure Type	Set-Up Time	Viscosity RT, cps	Service Temp Range, °F	Applications
MasterSil 711	1 pt silicone RTV	translucent	moisture	2-3 min	60,000	-75 to +400°F	Ultra-fast setting high strength general purpose system. Ideal for manufacturing.
MasterSil 713	1 pt silicone RTV	translucent white	moisture	20-30 min	3,000	-75 to +400°F	Low viscosity, for sealing, coating, encapsulation and conformal coatings.
MasterSil 800	1 pt silicone RTV	black	moisture	30-40 min	45,000	-75 to +600°F	Higher temp resistant (up to 600 °F). Excellent system for dry heat sterilization.
MasterSil 801	1 pt silicone RTV	black	moisture	35-45 min	paste	-75 to +600°F	Paste version of MasterSil 800.
MasterSil 151	2 pt silicone 100/10 mix ratio	"A" transparent "B" transparent	addition	1-2 hrs	2,000- 3,000	-75 to +400°F	Transparent, low viscosity for potting. Superb electrically. Full cure in 24 hours at 75 °F or 1 hour at 200 °F.
MB297MED	cyanoacrylate	clear	moisture	25-35 sec	2,400	-40 to +250°F	Class VI approved. High viscosity.
MB297MED-1	cyanoacrylate	clear	moisture	25-35 sec	1,100	-40 to +250°F	Class VI approved. Moderate viscosity.
MB297MED-2	cyanoacrylate	clear	moisture	15-20 sec	100	-40 to +250°F	Class VI approved. Low viscosity.
MB297MED-3	cyanoacrylate	clear	moisture	10-15 sec	5	-40 to +250°F	Class VI approved. Ultra-low viscosity.
X17 MED	solvent adhesive	clear/light tan	evaporation of solvent	20-30 min	300	-60 to 250°F	Unique Class VI, one part adhesive/primer, bonds polyolefins (e.g. polyethylene, etc.) without surface pretreatment.

Master Bond Inc.

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