



EPMAR is committed to developing and maintaining growth partnerships with its customers through:

- Custom formulations to meet stringent process requirements
- Dedicated and knowledgeable technical support
- ISO 9001:2008 certification to ensure consistent, premier quality products and service

PRODUCT SELECTOR CHART

High Performance Encapsulant, Overlaminant, Adhesive and Specialty Compounds

CUSTOM FORMULATIONS



EPOXY & POLYURETHANE EXPERTS



SINCE 1980



EPMAR Corporation
13240 Barton Circle
Whittier, CA 90605

P: 562.946.8781
F: 562.944.9958

epmar.com

PRODUCT SELECTOR CHART: HIGH PERFORMANCE ENCAPSULANT, OVERLAMINANT, ADHESIVE AND SPECIALTY COMPOUNDS

| | | MIX RATIO (A:B) | MIXED VISCOSITY CPS AT 25°C | POT LIFE AT 25°C 100G MASS | CURE SCHEDULE | SPECIFIC GRAVITY | HARDNESS SHORE | GLASS TRANSITION TEMP | DIELECTRIC STRENGTH V/MM | VOLUME RESISTIVITY (OHM-CM) |
|--------------------------------------|---|--------------------------|-----------------------------|----------------------------|--|------------------|----------------|-----------------------|--------------------------|-----------------------------|
| EPOXY ELECTRICAL ENCAPSULANTS | | | | | | | | | | |
| SS1803 | Two component black, low viscosity electronic grade potting compound. Excellent physical and electrical characteristics combined with easy handling make this resin/hardener combination ideal for the encapsulation of electronic modules. Surface appearance: High gloss | 100:42 BY WEIGHT | 995 | 40 MINUTES | 24 HRS AT RT OR 3 HRS AT 60°C | 1.12 | D: 85 | 65°C | 540 | 3.1 X 10 ¹⁵ |
| SS1804 | Two component black, filled room temperature curing epoxy potting compound. Developed for electronic module potting applications. Excellent electrical and physical properties combined with easy handling, self deaeration. Surface appearance: High gloss | 100:30 BY WEIGHT | 890 | 1 HOUR | 24 HRS AT RT OR 3 HRS AT 60°C | 1.19 | D: 80 | 66°C | 510 | 4.6 X 10 ¹⁴ |
| SS1836X-1 | Two component black, filled epoxy compound. Developed for electronic module potting applications. Excellent thermal properties, low shrinkage and lower coefficient of thermal expansion. | 100:100 OR 1:1 BY VOLUME | 10,600 | 2 HOURS | 24 HRS AT RT OR 3 HRS AT 60°C | 1.52 | D: 76 | 40°C | 410 | 3.0 X 10 ¹⁴ |
| SS1873 | Two component black, filled epoxy compound. The compound consists of a filled resin and filled hardener. Developed for electrical and electronic module potting applications. Exhibits outstanding tensile strength and crack resistance under extreme conditions. | 100:100 OR 1:1 BY VOLUME | 4720 | 90 MINUTES | 24 - 36 HRS AT RT OR 3 HRS AT 60°C | 1.61 | D: 85 | 40°C | 500 | 1.5 X 10 ¹⁴ |
| SS1874 | Two component clear, room temperature curing epoxy compound. Developed for applications requiring a clear casting compound. Excellent electrical and physical properties. Surface appearance: Clear Casting | 100:42 BY WEIGHT | 760 | 1 HOUR | 7 DAYS AT RT OR 4 HRS AT 80°C | 1.10 | D: 80 | 68°C | 515 | 3.1 X 10 ¹⁴ |
| SS1875 | Two component black, filled epoxy compound. The compound consists of a filled resin and filled hardener. Developed for electrical and electronic module potting applications. Excellent thermal properties, low shrinkage and lower coefficient of thermal expansion. | 100:100 OR 1:1 BY VOLUME | 6590 | 90 MINUTES | 24 - 36 HRS AT RT OR 3 HRS AT 60°C | 1.61 | D: 87 | 42°C | 500 | 1.5 X 10 ¹⁴ |
| SS1920 | Two component white or black, heat cure epoxy compound. Developed for electronic component and circuitry potting and encapsulation applications. Flame retardant compound containing no halogens or antimony oxide. Formulated for the fly back transformer market. UL listed 94VO. Surface appearance: Gloss | 100:35 BY WEIGHT | 1090 | 8 HOURS | 90 MIN AT 70°C PLUS 3 HRS AT 115°C | 1.61 | D: 90 | 114°C | 560 | 5.9 X 10 ¹⁴ |
| S02820 | Single component gray, heat cure epoxy. Developed for filter adhesive applications. This high performance compound resists extensive solvent submersion tests and exhibits excellent thermal shock resistance. Passes Mil Spec testing. | NA | 30,000 | NA | 15 MIN AT 120°C PLUS 15 MIN AT 175°C | 1.60 | D: 93 | 91°C | NA | NA |
| EPOXY OVERLAMINANTS | | | | | | | | | | |
| SS1919 | Two component clear amber, low viscosity 100% solids epoxy system. NSF 61 approved. Excellent adhesion to most substrates and has high chemical resistance. Formulated for the filter market. Surface appearance: High Gloss | 100:40 BY WEIGHT | 750 | 10 MINUTES | 24 HRS AT RT OR 4 HRS AT 80°C | 1.09 | D: 90 | 57°C | 520 | 8.0 X 10 ¹⁴ |
| SS1933 | Two component clear amber, low viscosity 100% solids epoxy system. NSF 61 approved. Excellent adhesion to most substrates and has high chemical resistance. Formulated for the filter market. Surface appearance: Good Gloss | 2:1 BY VOLUME | 900 | 30 MINUTES | 24 HRS AT RT OR 4 HRS AT 60°C | 1.1 | D: 85 | NA | NA | NA |
| SS1934 | Two component clear amber, low viscosity 100% solids epoxy system. NSF 61 approved. Excellent adhesion to most substrates and has high chemical resistance. Formulated for the filter market. Surface appearance: Good Gloss | 2:1 BY VOLUME | 900 | 30 MINUTES | 24 HRS AT RT OR 4 HOURS AT 60°C | 1.1 | D: 85 | NA | NA | NA |
| POLYURETHANE ADHESIVE | | | | | | | | | | |
| SS2120 | Two component white, membrane adhesive. Developed for RO and dairy filter applications. This high performance adhesive exhibits high PH and temperature resistance, while providing outstanding yields. FDA 175.105 compliant. NSF 61 approved filters. | 1:1 BY VOLUME | 20,000 | 30 MINUTES | 5 DAYS AT 25°C OR 3 HRS AT 60°C | 1.05 | D: 45 | NA | NA | NA |
| POLYURETHANE ENCAPSULANTS | | | | | | | | | | |
| SS2017 | Two component green, unfilled, 100% solids MDI based polyurethane compound. Developed for telecommunications connector block potting and casting applications. | 100:150 BY WEIGHT | 825 | 12 MINUTES | GEL: 18 MIN AT RT 7 - 10 DAYS AT RT OR 3 HRS AT 60°C | 1.10 | D: 60 | -80°C | 480 | 3.1 X 10 ¹³ |
| SS2044 | Two component clear, polyurethane compound. This high performance, flexible compound exhibits outstanding environmental thermal cycling resistance and provides excellent resistance to moisture exposure. | 1:1 BY VOLUME | 650 | 20 MINUTES | 5 - 7 DAYS AT 25°C OR 4 HRS AT 60°C | 1.00 | D: 45 | NA | 1.01 | 1.1 X 10 ¹¹ |
| SS2055 | Two component black, polyurethane compound. This high performance, flexible compound exhibits excellent water resistance and low shrinkage. UL 94HB. | 20:100 BY WEIGHT | 650 | 60 MINUTES | 7 DAYS AT 25°C OR 16 HRS AT 165°C | 1.4 | D: 45 | NA | NA | NA |
| SS2125 | Two component white, polyurethane compound. This high performance compound was developed for HEPA filter applications. | 1:1 BY WEIGHT | 600 | 4 MINUTES | 5 - 7 DAYS AT RT OR 3 HRS AT 60°C | 1.1 | A: 70 | NA | NA | NA |
| SPECIALTY POLYURETHANES | | | | | | | | | | |
| SS2014 | Two component gray, polyurethane compound with a long cream time. This hard, rigid foam can be hand or machine processed. The tough, hard skin makes this foam ideal for use in fabricating artificial rocks, picture frames, decorative accents and similar applications. Available in densities of 2 pcf - 30 pcf. | 52:48 BY WEIGHT | NA | CREAM TIME: 2 MIN. | GEL: 10 MIN AT RT 24 HRS AT RT | NA | D: 32 | NA | NA | NA |
| SS2105 | Two component gray or tan, polyurethane and polyurea hybrid system. The compound consists of a MDI base prepolymer component and a amine and polyether polyol component. This sprayable compound is formulated to produce good chemical and moisture resistance. Designed for spraying and fast demold time. Casting version available. | 52.3:47.7 BY WEIGHT | NA | 6 SECONDS | GEL: 12 SEC AT RT 24 HRS AT RT | 1.06 | A: 80 | NA | NA | NA |
| SS2056 | Two component amber, polyurethane elastomer system. The compound consists of a MDI base prepolymer component and a polyester polyols component. This pourable compound is formulated to produce good chemical resistance and physical properties. Developed for electronic device applications. | 52.3:47.7 BY WEIGHT | NA | 2 MINUTES | GEL: 3 MIN AT RT 24 HRS AT RT | 1.17 | A: 60 - 65 | NA | NA | NA |