

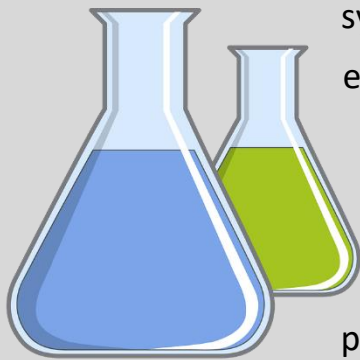
Evotech EVOLUTION RESIN TECHNOLOGY

Lectromat, Inc., long recognized as a manufacturer of B-stage resin coated films, papers, and cloth, and impregnated felts, now introduces an extension of our capabilities in providing custom formulated epoxy resins and compounds.

EVOTECH epoxy resins evolve from the concept that today's environmental, health and safety, productivity, and performance requirements can best be solved through custom formulated products. Growing industry concerns over current and future environmental regulations has prompted us to evaluate and utilize the latest technology in solventless and non-hazardous solvent bearing epoxy resin



systems. **EVOTECH** epoxy resins are the total answer to plant environment and employee health and safety issues.



EVOTECH is evolution resin technology; not generic yesteryear technology offered as reasonable alternatives that can only offer partial solutions. Our continuous effort to prove product and application expertise can result in overall improvements in performance, productivity, health and safety, and environmental compliance.

EVOTECH is customer driven evolutionary innovation; providing process and performance solutions today, tomorrow and the future. The products listed in this brochure represent standard formulations for the protection of most electrical and electronic devices. An investment in time to discuss your resin application will be rewarded with our total commitment to find the right solution to your individual problem. Our 40 plus years of service in the electrical insulation industry and combined application experience of over 100 years is testimony to our problem-solving capability.

UNFILLED – ROOM TEMPERATURE CURE

| RESIN | HARDENER | MIX RATIO (by wt.) | MIXED VISC. @25°C, CPS | POT LIFE ⁽¹⁾ @ 25°C | APPLICATION ⁽²⁾ | CHARACTERISTICS |
|--------|----------|-----------------------|---------------------------|-----------------------------------|----------------------------|---|
| LE-201 | LH-101 | 100:25 | 2500 | 33 mins | P, C | Good chemical & moisture resistance |
| | LH-102 | 100:50 | 1160 | 9.5 mins | P, C | Fast cure in thin films & small masses |
| | LH-103 | 100:50 | 1440 | 90 mins | P, C, M | Resilient, low exotherm/low shrinkage |
| | LH-104 | 100:50 | 1180 | 22 mins | P, C | Moderate pot life, resilient |
| | LH-105 | 100:100 | 1180 | 2 hours | P, C, M | Long pot life, low exotherm/low shrinkage |
| | LH-111 | 100:10 | N.A. | 15 secs ⁽³⁾ | A | Rapid cure, surface mount adhesive |
| LE-202 | LH-103 | 100:100 | 900 | 90 mins | P, C, M | Resilient, high impact resistance |
| LE-207 | LH-120 | 100:32 | 700 | 3-4 hours | P, C | Long pot life, Resilient, low viscosity, impact resistant, low exotherm/low shrinkage |
| | LH-105 | 100:100 | 1500 | 2 hours | P, C | Long pot life, Resilient, low viscosity, impact resistant, low exotherm/low shrinkage |

FILLED – ROOM TEMPERATURE CURE

| RESIN | HARDENER | MIX RATIO (by wt.) | MIXED VISC. @25°C, CPS | POT LIFE ⁽¹⁾ @ 25°C | APPLICATION ⁽²⁾ | CHARACTERISTICS |
|----------|----------|-----------------------|---------------------------|-----------------------------------|----------------------------|---|
| LE-401 | LH-101 | 100:10 | 70,000 | 1 hour | P, C | Good chemical & moisture resistance |
| | LH-102 | 100:20 | 5,000 | 15 mins | P, C | Fast cure in thin films & small masses |
| | LH-103 | 100:20 | 3,000 | > 4 hours | P, C, M | Resilient, low exotherm/low shrinkage |
| | LH-104 | 100:20 | 3,500 | 39 mins | P, C | Moderate pot life, resilient |
| | LH-105 | 100:40 | 2,800 | 2 hours | P, C, M | Long pot life, low exotherm/low shrinkage |
| 94-073 A | 94-073 B | 100:20 | PASTE | 2 hours | B | Stator end wind protection |
| 02-346 A | 02-346 B | 100:25 | PASTE | 4 hours | B | General purpose for sealing & patching coils & windings |

(1) 250 g mass

(2) P=Potting, C=Casting, M=Molding, TF=Trickle Feed, B=Brush On, VPI=Vacuum Pressure Impregnation, SD=Static Dip

(3) 10 g mass

(4) @ 25°C

(5) 22 ml

(6) Brookfield Helipath

(7) Mass Lid

The information contained herein is intended only to assist customers in determining whether our products are suitable for their application. Since we have no control over how products are used, we cannot guarantee the performance of these products. We request that customers inspect and test our products before use and satisfy themselves as to suitability. The exclusive remedy for all proven claims is replacement of our materials and in no event shall Lectromat, Inc. be liable for special, incidental, or consequential damages.


ONE PART – HEAT CURE

| RESIN | BROOKFIELD VISC. @ 25°C, CPS | V.O.C. | GEL TIME ⁽¹⁾ @150°C | SHORE D ⁽⁴⁾ HARDNESS | APPLICATION | CHARACTERISTICS |
|----------|-------------------------------------|--------------|-----------------------------------|------------------------------------|-------------|---|
| LE-100 | 400 | SOLVENTLESS | 38.9 mins | 85 | VPI, SD | Low viscosity, low dissipation factor |
| LE-101 | 125 | SOLVENTLESS | 11 mins ⁽⁵⁾ | 88 | P, C | Rigid, unfilled with high heat deflection |
| LE-102 | 10, 850/4300 | SOLVENTLESS | 9.5 mins | 83 | VPI, SD | Thixotropic impregnant/encapsulant |
| LE-102NT | 1120 | SOLVENTLESS | 6.25 mins | | VPI, SD | Non-thixotropic version of LE-102 |
| LE-300 | 75,000 49,250 | SOLVENTLESS | 5.7 mins | 86 | P, C | Fast cure, excellent adhesion to metals |
| LE-330 | 600,000 120,000 | SOLVENTLESS | 15 mins | 90 | B | High strength at elevated temperatures |
| LE-345 | 2,000,000 ⁽⁶⁾ 705,000 | SOLVENTLESS | 9 mins | 90 | B | Higher viscosity LE-330 |
| 97-236-8 | 21,000/8,000 | SOLVENTLESS | 15 mins ⁽³⁾ | 85 | VPI | Stable, thixotropic impregnant/encapsulant |
| 09-386 | 230-350 | 3.33 LBS/GAL | 35 min ⁽⁷⁾ | 85 | SD | Low viscosity, chemical and moisture resistant |
| LE-166 | 25,000/5,500 | SOLVENTLESS | 15 mins | 80 | VPI | Thixotropic, excellent film build, limited run off |
| LE-106 | 32,000/6,000 | SOLVENTLESS | 15 mins | 90 | VPI | Thixotropic, excellent film build, limited run off, glass fiber filled to reinforce toughness |

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(4) @ 25°C

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