


Application Guideline for PCB-Protection



1. Recommended ELANTAS Insulation systems

Systems	Distinctive Features
Shimocast 101 + Hardener IS 32	Filled, Flexible, PU Casting & Potting System, RT Curing.
Elan-tron MC 4236 + W 4236 	Filled, Self-extinguishing, RoHS Compliant, Thermal Class H (180°C). High Thermal Conductivity. Epoxy Resin System. The system is UL 94 V0 and listed (File E143115 and E116643).
Elan-tron MC 5506 + W 5506	Filled, Semi Rigid, Halogen free, Fire Retardant, EP System for Potting, RT Curing
Elan-tron PU 54 + PH 54	Filled, Fire Retardant, RoHS Compliant, RT curing, Polyurethane Resin System for Potting & Casting
Shipal 30 B + Hardener IS 16	Filled, Highly Flexible, PU Potting System, RT Curing.

2. Application Method: Potting

1. Manual Potting
2. Dispensing Machine Potting

1. Manual Potting:

- In pre-filled products it is good practice to re-homogenize the material by stirring before use.
- Take Resin component and add proportionate quantity of Hardener and mix carefully at room temperature till mixture becomes homogenous.
- Do not mix vigorously to avoid air trapping.
- It is advisable to pre-heat the components and /or carry out a de-aeration step under vacuum after potting.
- Follow the suggested curing schedule. (Refer Sr.No-4)

2. Dispensing Machine Potting:

- In pre-filled products it is good practice to re-homogenize the material by stirring before use.
- Charge Resin & Hardener component on dispensing machine.
- Heat Resin part at 50 – 60 °C under stirring.
- Apply vacuum of 680 mm of Hg for 20 – 30 min to remove traces of moisture & entrapped air.
- It is advisable to pre-heat the components and/or carry out a de-aeration process under vacuum after potting.
- Follow the suggested curing schedule. (Refer Sr.No-4)

3. Known equipment manufacturers



1. HUBERS VM GmbH
 2. Twin Engineers P Ltd, Pune
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4. Recommended curing schedule:

Products / Systems	Curing Schedule
Shimocast 101 + Hardener IS 32	16 h / 25°C + 4 h / 80°C
Elan-tron MC 4236 + W 4236	24 hours 25°C or 6 hours at 50°C
Elan-tron MC 5506 + W 5506	20°C - 48 hours <u>or</u> 30°C - 20 - 24 hours <u>or</u> 40°C - 16-20 hours <u>or</u> 60 - 65°C - 1 - 2 hours + 12 hours at RT (25 - 40°C)
Elan-tron PU 54 + PH 54	24 h at RT (25 - 40°C)
Shipal 30 B + Hardener IS 16	24 h / RT (25 - 40°C) or 4h / RT(25-40°C) +2-4 h / 80°C

5. Do's:

- Always store the Resin & Hardener under shed as received.
- The Resin & Hardener must be kept away from any exposure to humidity.
- Stir the pre-filled resin part before use.
- Ensure that the lids of resin and Hardener containers are closed tight after use.
- Work place should be clean and well ventilated.
- Workmen should wear protective goggles and gloves.
- Workmen wash their hands with soap & water on completion of job.
- In case of splashes in eyes, wash with plenty of water & take immediately medical help.

Don'ts:

- Avoid storage outside.
- Resin & Hardener should not be stored together.
- Don't keep Resin & Hardener containers open.
- Don't inhale the Hardener.
- Do not eat at work place

6. Technical Data Sheets (TDS) and Material Safety Data Sheets (MSDS)

TDS & MSDS of relevant products will be available upon request.

7. Company Profile

ELANTAS Beck India Ltd. is a group company of ELANTAS Electrical Insulation Division of ALATNA AG, Germany, an International Specialty Chemical Group currently having 42 operational companies and 46 application and research laboratories worldwide.

In 2006, ELANTAS Beck India completed 50 years of operations in India. The company manufactures a wide range of specialty chemicals for electrical insulation and construction industries. In pursuit of ALATNA's global commitment, ELANTAS Beck India develops new products and processes to meet the changing needs of customers; and utilizes its strengths effectively to be MANUFACTURERS OF RELIABILITY.

Our leadership status ensures we translate our leading technological capabilities and consistent quality standards to the advantage of our customers through contemporary and reliable products and solutions.

Our wide products profile is well supported by comprehensive Technical Service, and an All India Authorised Distributor Network.

ELANTAS Beck India Ltd. has been accredited with the International Quality Management System ISO 9001:2000, Environment Management System Certification ISO 14001:2004 and Occupational Health & Safety Management System BS 18001 : 2007.

8. Manufacturing sites in India



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Ankleshwar, Gujarat

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