

Application Guideline
for
HV- Insulators and Bushings



1. Recommended ELANTAS Insulation systems

Systems	Distinctive Features
Shimorez 400 + Elan-tron WH 95+ Shimoplast 08 + Acc.01 + Filler	Unfilled, EP Resin System for Casting, Heat Curing.
Dobeckot 520 F + Hard.7055 + Flexibilizer EP 09 + Acc.803 M + Filler	Unfilled, EP Resin System for Casting, Heat Curing.

2. Application Method: Automatic Pressure Gelation

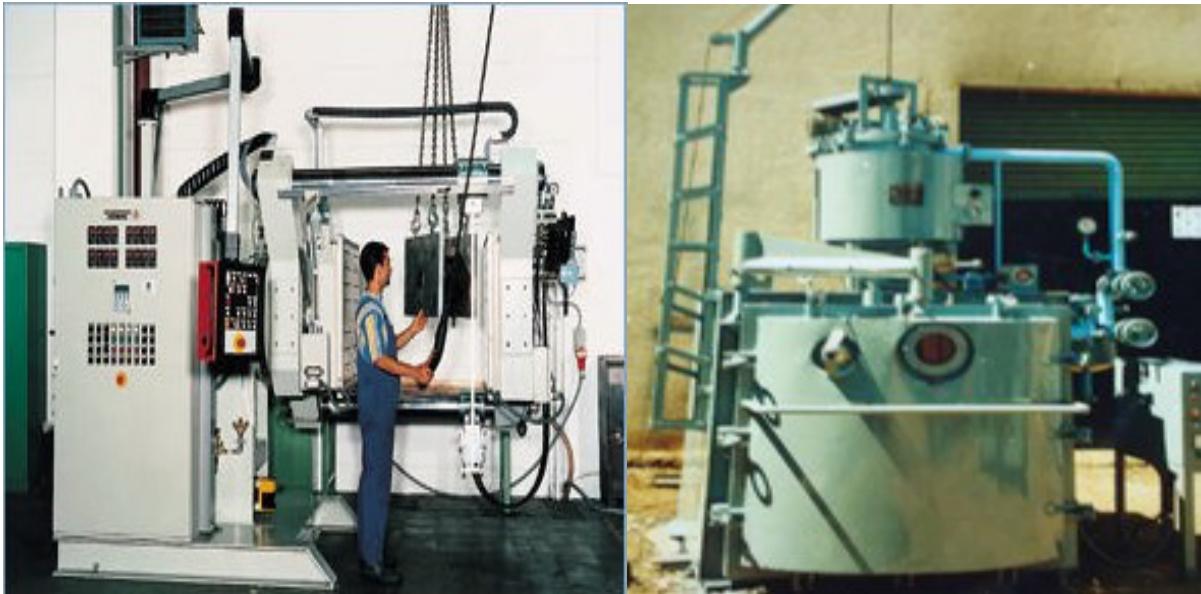
Preparing Filled Liquid Resin System:

- Take Resin + Plasticizer + Hardener in mixing chamber. Add required / suggested quantity of filler and pigment, mix under vacuum of 0.5 to 5 mbar for 1-2 hours depending upon quantity & mixing equipment. Thereafter add proportionate quantity of accelerator in the mixing chamber and continue degassing for further 15-25 min. Mixture is now ready for intended application.

Casting on Automatic Pressure Gelation Machine.

- Connect the mixing chamber to Automatic Pressure Gelation machine. The degassed material is injected into the APG mould directly from the chamber by pressure.
- Start filling the mould by pressure till the material overflows from the upper valve.
- Close the upper valve & cure for 45 -60 min at 120°C.
- Demould and remove the components & allow to cool at room temperature.
- Post cure the components as per the recommended curing schedule. (Refer Sr.No -4)

3. Known equipment manufacturers



1. Vacuum Plant & Instrument MFG. Co. Ltd.Pune.
 2. CEE DEE Vacuum, Pune.
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4. Recommended curing schedule:

Products / Systems	Curing Schedule
Shimorez 400 + Elan-tron WH 95+ Shimoplast 08 + Acc.01+ Filler	6-8 h /80 ° C + 6-8 h / 120 ° C. or 10-12 h /120 ° C
Dobeckot 520 F + Hard.7055 + Flexibilizer EP 09 + Acc.803 M + Filler	6-8 h /80 ° C + 6-8 h / 120 ° C. or 10-12 h /120 ° 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



Pimpri, Maharashtra



Ankleshwar, Gujarat



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