Beck Technical Information
Do’s & Don’t while using Dobeckan resins

1.0 Plant Design
1.1 Should have cooling device to maintain impregnant in the storage chamber at < 25°C. Lower temperature than 20°C will increase resin viscosity and pot life and higher than 25°C will reduce the pot life of mixture.
1.2 Should not have any valves, parts, pipelines which are contact with activated resin, made from non-ferrous metal (Zinc, Brass, Copper, Galvanized Iron, etc.). Non-ferrous metal activates the resin and reduces its pot life.
1.3 Do not apply primer or paint to the inside of plant, which comes in contact with resin. Just before use, clean thoroughly using Diluent M / Diluent V.
1.4 Stainless steel containers for VPI tanks are preferred. M.S. containers can also be used with rust preventive coating is preferred (Dobeckot 5022 + Hardener 7030 + Hardener 7035).

2.0 Storage of inactivated Dobeckan Resin, Hardener and Activator :
Store the containers of Dobeckan, Hardener, Diluent & Inhibitor at <25°C in a cold storage, away from flammable chemicals.
Do not ever expose the resin containers to direct sunlight or high ambient temperature (>30°C) or fire spots.

3.0 While carrying out impregnation :
3.1 Do not attempt vacuum lower than 10 torr, which is the vapour pressure of Diluent M present in Dobeckan Resin. At lower vacuum, Diluent M will evaporate from Dobeckan resin, increasing its viscosity and contaminating vacuum pump oil. Work-out ideal viscosity range for your components and maintain this viscosity throughout. Ensure sufficient resin consumption of about 12% of activated impregnant per week. Add freshly activated Resin and Hardener mixture to the impregnant storage tank periodically. If consumption is low, you run a risk of premature gelation of the resin mixture.
3.2 Measure activated UP Resin periodically twice or thrice a week for viscosity and gel time once a week.
3.3 Add Diluent M to reduce viscosity. The threshold limit value of Diluent is 10% of the resin quantity.
3.4 Add Inhibitor UP 1 to increase gel time, if the gel time has reduced to 10 minutes or below at 100°C
3.5 Do not leave winding immersed in Dobeckan Resin for too long. Diluent M present in Dobeckan resin may chemically attack the wire coating and other insulations on prolonged contact (generally >2 h)

4.0 While curing Dobeckan resin impregnated jobs :
4.1 Do not keep UP Resin impregnated jobs along with varnish impregnated jobs.
4.2 Do not exceed lower explosive limit (45 g/m³) in the oven particularly during gelling of the impregnated jobs. Diluent M composition above lower explosive may cause explosion or fire when a spark is produced due to friction or loose electrical contact.

5 General Safety Precautions :
5.1 Vapours of Diluent M are combustible and hazardous when inhaled continuously.
5.2 Diluent M vapours being heavier than air, settle down in working area. Concentration > 20 ppm cause smell and irritation to the eyes of workman.
5.3 Keep good exhaust conditions at working places to maintain MAK value less than 20 ppm.
5.4 In case of splashing in eyes, wash with plenty of water and take immediate medical help.

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