IMPREGNANTS IMPREGNANTY

5. VARNISHES VULAK/ Antitracking varnish/ LAK 372



General conditions:

LAK 372 - antitracking enamels and varnishes, air drying alkyd, clear, golden, pigmented and aerosol version available The LAK 372 range of anti-tracking varnishes and enamels provide tough, impervious, insulating seals in difficult environment. The system dries rapidly in thin film to give very effective sealing off of electrical leakage paths together with excellent noise reduction characteristics. The cured product conforms to IEC 464 has an excellent resistance to transformer oils and moisture, and is suitable for use in Class B and F insulating system. A low hazard fungicide is included in the varnishes enamels, which gives a 0 rating (no growth) fungal resistance when tested. This makes the system particularly suited for tropicalisation and for use on equipment working in warm humid climates.

Application:

Suitable for noise reduction in small transformers and moisture protection, antitracking and tropicalisation on all types of electrical equipment.

Specification:

P

170-220 sees B4 flow	w cup at 25°C			
40 – 42% clear and golden version				
0,96 — 0,9 clear and golden version				
27°C				
12 months at 21°C				
Touch dry	15 minutes			
Hard dry	45-60 minutes			
24 hours				
brush dip or sprav				
	Dip	Sprav		
Xylen				
	40 – 42% clear an 0,96 – 0,9 clear ar 27°C 12 months at 21°C Touch dry Hard dry 24 hours brush, dip or spray Brush As supplied Acc. to	0,96 — 0,9 clear and golden version 27°C 12 months at 21°C Touch dry 15 minutes Hard dry 45-60 minutes 24 hours brush, dip or spray Brush Dip As supplied Acc. to Worshop practise	40 – 42% clear and golden version 0,96 – 0,9 clear and golden version 27°C 12 12 months at 21°C Touch dry 15 Hard dry 45-60 24 hours brush, dip or spray Brush Dip Spray As supplied Acc. to Worshop practise	40 – 42% clear and golden version 0,96 – 0,9 clear and golden version 27'C 12 months at 21'C Touch dry 15 minutes Hard dry 45-60 minutes 24 hours brush, dip or spray Brush Dip Spray As supplied Acc. to Worshop practise thin with thinner



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IMPREGNANTS IMPREGNANTY

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CABLES

Procedure for dip impregnation of smaller components.

- 1. Thin LAK 372-2000 with T4 thinners such to achieve a desired film build on components
- 2. Immerse the components completely into the varnish fo 1-10 minutes
- 3. Drain components for 15-30 minutes over the varnish

4. Cure

a) At ambient 45 minutes – 2 hours components can be handled. But only 50-70% of properties have developed and there is still residue solvent to be eliminated. 24-48 hours 95% of properties are developed and there are only trace quantities of solvent still present within components whereas in the majority of cases this trace of solvent is diffused slowly into the atmosphere causing no further problem, if the components are used or packed in materials such a polystyrene some attack can occur. b) The cure can be accelerated heating the components to 2-3 hours at 800C will give an equivalent cure to 24-48 hours at ambient

With heavily taped, tightly wound or larger components there is a risk of solvent entrapment. This risk is reduced by using a heat cure process. The process each customer chooses depends on component size or design, film required, cure temperature and oven efficiency and thus only a guide can be given.

The cure time's chosen is dependant on the size and type of component. Typical figures are given.

Cure times:

Time	15 mins	45-60 mins	24-48 hrs	2-3 hrs
Temperature (°C)	21°C	21°C	21°C	80°C
Comment	Touch dry	Components	Cured	Cured
		Handleable		

Properties of cured varnish:

Dielectric strength	ASMD115	72kV/mm
	After immersion in water fo 24 hrs	30kV/mm
Comparative tracking inde	x	180
Flexibility		no cracks up to 180°C bending

Health and safety:

Refer to Material Safety Data Sheet available

Packing

25 lts, 5 lts tins, clear, golden



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