

## 1. GENERAL DESCRIPTION

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Air drying one-component polyurethane-alkyd resin coating.

## 2. FEATURES

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- URETHAN 71 is a transparent protective coating for printed circuit board, having excellent insulating properties. The coating has an outstanding adhesion performance in the temperature range from -40°C to +120°C. Due to the chemical cross linking reactions happening after the drying stage, URETHAN 71 based coatings can also be used in humid or aggressive environments.

## 3. APPLICATIONS

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URETHAN 71 is a reliable coating for PCB's, especially when used in hot/humid environments.

Because of its aesthetics and good adhesion on many materials, URETHAN 71 can also be used to provide decorative and transparent protection for every day metal articles. The slightly yellow coloration enhances the aesthetics of non-ferro metal surfaces.

## 4. DIRECTIONS

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- For small runs and service applications, the easiest way to use URETHAN 71 is from an aerosol can. Spray the product from a distance of 20-30 cm on a dry, and degreased surface. We do recommend Kontakt LR to remove greasy layers, dirt and flux remains from PCB's. After usage, purge the valve by spraying the can in an up-side-down position until only propellant escapes.
- For serial production runs, bulk URETHAN 71 can be applied by brush, by dipping or by spraying. If the mixture, as supplied, is too viscous for existing spraying equipment, a little "Thinner for Urethan 71" (acetone) can be added. The exact mixing ratio must be determined by trial.
- The product must be properly sealed when being stored. Because URETHAN 71 is susceptible to cross-linking during drying, a coating once thickened can not be made useable again by dilution.
- At ambient temperature, almost all solvents will be evaporated after 120 minutes. At this stage the coating is sufficiently dry to allow further assemblies to be handled for mounting. The chemical cross linking reactions take several days under ambient conditions. However 90% cross-linking can be achieved after 24 hrs storage at 60°C.
- URETHAN 71 contains flammable solvents and hence all ignition sources should be removed. Make sure there is good ventilation in the work place.
- Further information on safety can be obtained from the Material Safety Data Sheet.

**5. TYPICAL PRODUCT DATA (without propellant)**

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**Aerosols**

Flash point	:	<0°C
Coverage 20µm dry film (calculated)	:	approx. 0,5m <sup>2</sup> /100 ml

**Bulk**

Viscosity	:	<30mPas
Flashpoint	:	<0°C
Density at 20°C	:	0,80-0,84
Coverage 20µm dry film (calculated)	:	approx. 10 m <sup>2</sup> /l
Dry to touch at 20°C	:	approx 120 min.

**Cured film properties**

(24 hrs at 20°C + 24 hrs at 60°C, thickness 20-40 µm)

Appearances	:	yellowish-transparent
Dielectric Strength at 20°C	:	>40 kV/mm
Surface resistivity	:	>10 <sup>12</sup> Ω
Volume resistivity	:	>10 <sup>12</sup> Ω.cm

**Adhesion on copper plates, measured at ambient temperature**

Following 6 hrs at -40°C	:	Gt 0-1
Following 6 hrs at +120°C	:	Gt 0-1

**6. PACKAGING**

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Aerosol	:	12 x 200 ml, 12 x 400 ml
Bulk	:	1 Lt

All statements in this publication are based on service experience and/or laboratory testing. Because of the wide variety of equipment and conditions and the unpredictable human factors involved, we recommend that our products be tested on-the-job prior to use. All information is given in good faith but without warranty neither expressed nor implied.

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