

PLASTIK 70 SUPER

Effective protection for electronic circuits and assemblies.

1. GENERAL DESCRIPTION

Quick drying, colorless transparent insulating and protective coating based on novel acrylic resins.

2. FEATURES

- PLASTIK 70 SUPER is a low viscosity, solvent drying acrylic based conformal coating with excellent insulating properties. The lacquer is colorless transparent and elastic. It resists to extreme temperatures in the range from – 40°C to + 125°C.

Perfect protection and insulation in hot/humid environment.

PLASTIK 70 SUPER is colorless-transparent and as such is not visual on the printed circuit board surface.

Contains a pigment that gives a fluorescent blue glow when exposed to UV light.

Without silicones.

For repair works PLASTIK 70 SUPER can be soldered through or be totally removed with Kontakt Chemie THINNER 70

3. APPLICATIONS

PLASTIK 70 SUPER can be used in applications such as aeronautics, marine, aerospace, telecommunications, electronic materials, automotive electricity etc.

PLASTIK 70 SUPER is used as a durable protection on all electronic assemblies which have to resist extreme climatic conditions.

4. DIRECTIONS

For small runs and service applications, the easiest way to apply PLASTIK 70 SUPER is from an aerosol can. Spray from a distance of 20 to 30 cm on the dry and degreased surface.

As pre-cleaning of PCB's, we do recommend the use of KONTAKT PCC to remove greases, dirt and flux residues. When finished spraying, clean the aerosol valve by turning the can upside down and pressing the button until only propellant escapes.

For serial production runs, PLASTIK 70 SUPER in bulk can be applied by brush or by dipping. For spraying, two parts per volume PLASTIK 70 SUPER is diluted with up to one part of Kontakt Chemie THINNER 70. The exact mixing ratio must be determined by trials with the equipment concerned.

TECHNICAL DATA SHEET 2/3

PLASTIK 70 SUPER

For dip coating it is also necessary to fix the immersion time and the withdrawal speed. The faster the removal from the bulk, then thicker the film will be. Dipping baths have to be carefully protected to ensure no entrapment of conductive stuck-on residues.

PLASTIK 70 SUPER contains solvents like butyl acetate. Printed circuit board materials and electronic components generally have a good compatibility with these solvents. In case of plastic surfaces (e.g. housings) a compatibility test is always recommend. It is necessary in particular, to test its suitability for plastics susceptible to stress cracking (e.g. polycarbonate).

PLASTIK 70 SUPER contains flammable solvents and hence when working with the product, make sure there is good ventilation in the workplace. Remove all possible ignition sources.

A safety data sheet (SDS) according to EU directive 91/155/EEC and amendments is available for all CRC products.

5. TYPICAL PRODUCT DATA

Aspect	:	liquid.
Density	:	0.85 - 0.91 g/cm ³
Viscosity bulk	:	15 - 20 mPa.s
Solid content (bulk)	:	16 - 20 %
Flashpoint (bulk)	:	< 0°C
Coat thickness	:	20 to 40 microns
Coverage (bulk)	:	approx. 4.5 m ² /litre
Drying time at ambient temperature (HR 50%)	:	dust-free : 20 à 30 min dry to touch : 20 à 30 min fully dried : 1 day

Electrical characteristics:

Dielectric strength	:	value > 85 kV/mm
Surface resistivity	:	value > 1 x 10 ¹² Ω
Volume resistivity	:	value > 1 x 10 ¹³ Ω cm
Resistance to thermal choc	:	excellent (7 cycles in 24 h / temperatures from - 40 °C to + 85 °C).
Resistance to humid heat	:	excellent (24 h at + 55°C and 95% HR plus 24 h at +25°C and 95% HR).

Temperature resistance (tested at ambient temperature):

After exposure at - 40°C during 6h	:	excellent
After exposure at +125°C during 6h	:	excellent
Fungal growth (test method D850)	:	none



TECHNICAL DATA SHEET 3/3

PLASTIK 70 SUPER

6. APPROVALS:

UL 94 Flammability test rating : V-0

7. PACKAGING

Aerosol : 400 ml

Canister : 5L

PLASTIK 70 THINNER

Canister: 1L

5L

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.

This Technical Data Sheet may already have been revised at this moment for reason such as legislation, availability of components and newly acquired experiences. The latest and only valid version of this Technical Data Sheet will be sent to you upon simple request or can be found on our website: www.crcind.com.

We recommend you to register on this website for this product so you will be able to receive any future updated version automatically.

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