

# TECHNICAL DATA SHEET



**S I L 100**

**Jan. 2005**

**CONFORMAL COATING SILICONE 100% SOLIDE**

## PRODUCT DESCRIPTION

SIL100 is a silicone base coating used as a protective coating for rigid and flexible PCB exposed to high humidity environments.

SIL 100 in bulk may be applied by spraying (gun or select coat machine), dipping (neutral atmosphere) or brushing

## CHARACTERISTICS

- Solventless.
- Excellent resistance to mould growth, tropical conditions and ultraviolet light.
- 60°C à 200°C.
- Good dielectric properties, coating thickness typically 25-100 microns.
- Non corrosive, fast room temperature moisture-condensation.
- Heat accelerable.
- Transparent.
- Fluorescent tracability

## APPLICATION

SIL100 can be applied by spraying, dipping or brushing.

PCBs are composite materials and need to be dry before applying coating. (60°C , 2 hours is sufficient).

## CURE TIME

SIL 100 curing time will be accelerate by heat and humidity.

SIL 100 is tack free after 20-30 mn at room temperature.

## TYPICAL PROPERTIES

### *SIL100 liquid phase*

Colour	Translucide
Non volatil content	100 %
Viscosity (20°C, Zahn 2)	80-120 cSt
Specific gravity at 20°C	0,97

*SIL100 cured*

Dielectric strength	90 kV/mm
Volume Résistivity	1 x 10 <sup>15</sup> Ohms/cm
Insulation resistance ( $\Omega$ )	10 <sup>12</sup> (MIL-I-46058C)
Dielectric withstanding voltage	> 1500V (MIL-I-46058C)
VRT	-25°C +25°C, 100 cycles, palier 15Mn, 5°C/Mn
Thermal Shock	-25°C +50°C, 50 cycles, 15Mn/15Mn
Test SIR 15H	20°C-80°C, 90%RH, sous tension
Moisture resistance(eau déi)	10-80°C, 95%RH +-4%, 90 jours
Fammability	Auto-extinguible
Temperature range	- 60°C à + 200°C
Salt fog(NF X41-002)	620H

**PACKAGING**

Bidon de 5 litres

**ORDER CODE**

SIL100 05 L

*Toutes ces informations sont données en toute bonne foi mais sans garantie. Chaque application étant différente, il est vivement conseillé d'effectuer des tests préalables. Les spécifications concernant les propriétés sont données à titre indicatif et non comme étant spécifiques.*