

Data number	ST-TDS-2301
Data version	1



Product technical manual

Name: Three anti-glue
Model: SK-7200W-AT01

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Product technical manual

First. Brief introduction of products

SK-7200W-AT01 series three anti-glue is made up of special synthetic rubber resin as main body, and is made up of special multi copolymer modified macromolecule resin. It combines the advantages of all kinds of single insulation materials, and is completely different from the traditional Conformal Coating. After Conformal Coating is coated on PCB, the compact protective film can be formed on various printed circuit boards by the adhesive reaction of its own group and the air medium, and it has strong insulation protection ability.

Self-reactive three anti-glue coating on printed circuit boards and components can reduce or eliminate the decline in electronic operating performance when may be affected by adverse environmental factors. The PCB circuit board with three anti-glue has moisture, salt fog, mold "three anti-heat" performance and heat and cold shock, anti-aging, radiation, salt fog, ozone corrosion, vibration resistance, so as to improve the reliability of the circuit board, increase its safety factor, and ensure its service life. In addition, since this three anti-glue prevents leakage, it allows for higher power and closer spacing of the printboard. This can meet the purpose of component miniaturization. With fast drying, low odor, environmental protection and so on, can effectively improve customer productivity and quality.

Two. Product characteristics

- ★Stable temperature resistance for -40°C~125°C
- ★Ultra low water absorption, can play an excellent moisture-proof effect
- ★The film has good flexibility and can effectively eliminate the stress between the devices
- ★Strong adhesion, effective prevention of salt spray, weak acid, alkali corrosion, etc.
- ★Strong weatherability, cold and heat shock resistance, can effectively protect the product.

Three. Scope of application

Protective computer products, power supply products, communication products, TV, audio equipment, household appliances, instruments and equipment, medical equipment, new energy industry, rail transportation, aerospace, military and other industrial control board, can prolong life and improve the circuit stability.

Four. Application Guide

Before use:

- 1、 the operators wear protective equipment, such as: masks, gloves, aprons..... We should control the temperature and humidity in the workplace: the temperature of 10 DEG -28 DEG, relative humidity up to 85%, the best in 70% conditions.
- 2、 ensure that the container containing Conformal Coating is clean and dry, and there is no pollution in any form. If there is pollution, it should be stopped immediately and replaced with new Conformal Coating.
- 3、 the Conformal Coating has good coating solubility, in general, the coating surface is not required to be cleaned before coating. But to ensure that the coated surface is dry, clean, no oil impurities, etc., can get the best coating effect and protective performance of Conformal Coating.
- 4、 keep good ventilation equipment in the workplace, so as to better protect the health of the people.
- 5、 keep Conformal Coating container airtight, avoid water vapor and other intrusion. Please refer to the product safety data sheet before using the product (MSDS).

Using :

- 1、 As far as possible with a sealed container with Conformal Coating, not with blowing equipment directly to the Conformal Coating adhesive open container blowing, so as not to prevent the three glue evaporation too fast and waste

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material or appear white phenomenon. In the process of operation, if the need to stop, pause, need to seal Conformal Coating glue container sealed, do a good job of anti volatilization, dustproof measures, so as not to affect the effect again.

2、During the job, ensure that the thickness of the PCB board three anti-glue is uniform. 3 ensure that the thickness of the PCB board is uniform in the process of operation.

3、The temperature of the oven in the production line is balanced, and the specific temperature is decided by the temperature resistance and the technological requirements of the component. The upper limit is 100 degrees. When the oven is out of the oven, it can not be touched in any way, so as to prevent the scald and destroy the coating of the glue, and then proceed the next process after the table is dried.

After use:

1、no used Conformal Coating, should be placed in a special collection container, not with the use of three proofing glue mixed.

2、for the use of containers, with Conformal Coating special diluent clean, dry cloth dry, put into the designated area.

3、take off the protective equipment, put into the designated area, clean hands, face, you can work.

Five. technical specifications

Project	Product index	Reference standard
Texture of material	Modified polyurethane resin	/
Appearance	dark yellow, Clear liquid	GB1981.2-2009
Proportion (25℃)	$0.97 \pm 0.10 \text{KG/L}$	GB1981.2-2009
Viscosity (25℃, 4# coated cup, SEC)	$<40''00$	GB1723-79
Solid content (%)	33 ± 3	GB1725-79
Halogen content (calculated by Cl-, wt%)	PASS	IPC-TM-650-2007
Drying time (25℃, RH70%, Natural drying)	Table dry $\leq 10'$	GB/T1728-1979
	Harden $\leq 3\text{HR}$, Completely dry $\leq 168\text{HR}$	

SIX, performance index

Project	Product index	Detection methods and standards
Adhesion (cross-cut test)	0~1 level	GB/T9286-2008
Water absorption (%)	≤ 1.5	GB/T1738-1979
Flexibility of paint film	Pass	IPC-TM-650
Heat resistant softening	Pass	QJ/GD 41.13.060
Flame retardant grade	UL-94HB	UL94HB-2003
Volume resistivity	$\geq 10^{13} \Omega \cdot \text{cm}$	GB/T1981.2-2009
Acid and Alkali resistance	No corrosion, spalling, wrinkling, blistering, loss of light and other phenomena	GB1763-1986

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Thermal Shock	Pass	IPC-TM-650. 2. 6. 7. 1A
Salt spray test	Pass	GB/T2423. 17-2008 800h
Mold test	0 class	IPC-TM-650

Description:

- 1、Above performance test, based on the film completely dry conditions measured;
- 2、This information is for reference only, not as the basis for legal liability;
- 3、According to the requirements of the process, according to the requirements of the most suitable procedures or control methods to ensure the quality of stability.