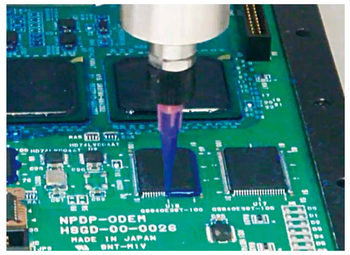
Coating Methods

There are two methods for applying this series : using a dispenser or a brush. Please choose the appropriate method for your application.

We can assist with application instructions and offer equipment manufacture recommendations.

Discharge state of ELEP COAT : Curtain coating nozzle



Coating part by dispenser (Ref.)

Packing

Item	Size	Can size	Packing size	Packing weight (approx.)
LSS-520MH LSS-520MHB LSS-520MHF	4KG	105mm×170mm×320mm	240mm×350mm×365mm	18.5KG : 4cans
	14KG	237mm×237mm×350mm	N/A	N/A
	15KG (UN) *	290mm×290mm×375mm	300mm×300mm×400mm	18.0KG
LSS-520MHB-K	13KG	237mm×237mm×350mm	N/A	N/A
	15KG (UN) *	290mm×290mm×375mm	300mm×300mm×400mm	18.0KG
LSS-520MHF-K	15KG (UN) *	290mm×290mm×375mm	300mm×300mm×400mm	18.0KG
LSS-540E	17KG	238mm×238mm×350mm	310mm×310mm×420mm	18.5KG

* For oversea pack only

Caution : Product contains volatile organic solvents-Need well-ventilated area and proper safety protection recommended.
Please read Safety Data Sheet (SDS) for more information.
Please evaluate the suitability before use.

Nitto Shinko Corporation 【 http://www.nittoshinko.co.jp 】

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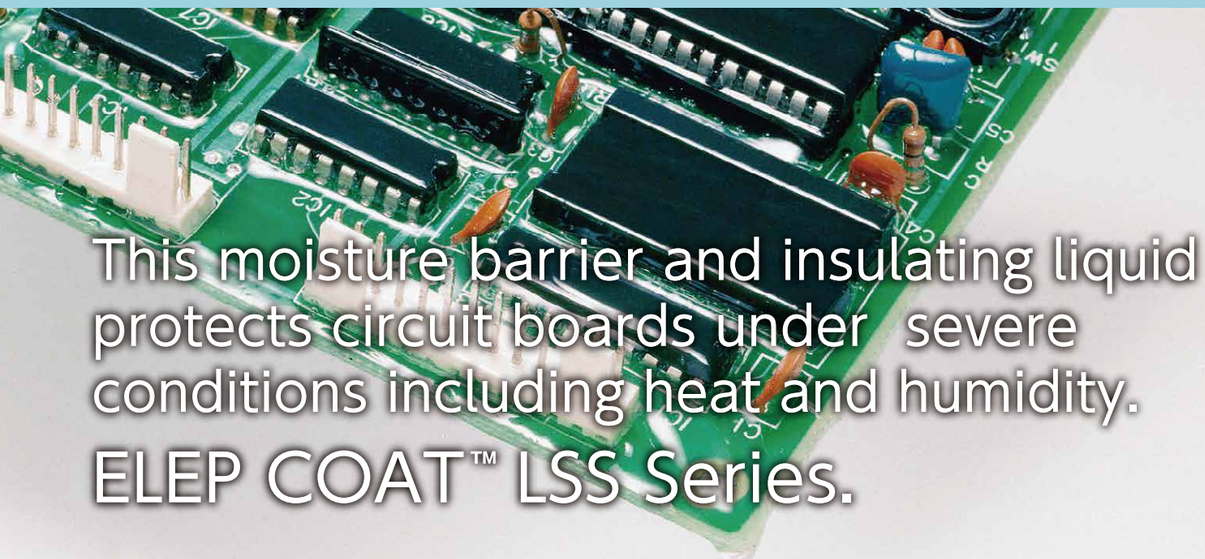
CATALOG CODE : 10054 2406 R

Nitto
Innovation for Customers

Conformal Coating For Printed Circuit Board

ELEPCOAT™



This moisture barrier and insulating liquid protects circuit boards under severe conditions including heat and humidity.

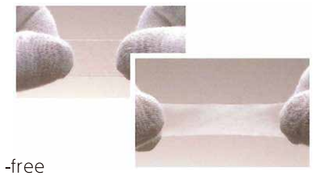
ELEP COAT™ LSS Series.

Circuit boards are the heart of any electronic device.
The moisture barrier coating is designed to protect devices that are exposed to severe outdoor conditions and prevents mechanical failures on important electronic devices.
ELEPCOAT provides protection to circuit boards by forming a film that provides protection against moisture, salt damage, sulfidizing gas and dust-hence safeguarding the reliability of electronic devices.
ELEPCOAT can be applied as a moisture or dust barrier in various electric equipment, ECU/EPS vehicle boards and in electronic circuit boards such as in air conditioners.

Features

ELEP COAT is a liquid sealing compound that uses rubber-modified materials as its main ingredient and provides the following features.

1) Flexible and strong film ··· Heat resistant, vibration resistant
2) Insulation coating for low water-vapor permeability ··· Water-vapor permeability
   (1/10 of acrylic･urethane, 1/100 of silicon)
3) High insulation and migration resistance
4) Excellent adhesion and conformability ··· Adheres well and high to glass epoxy, metal and other olefin-plastic
5) Quick form film (short processing time) ··· LSS-520MH series
6) Uses solvents that conform with the PRTR and vehicle interior VOC ··· LSS-540E is VOC -free

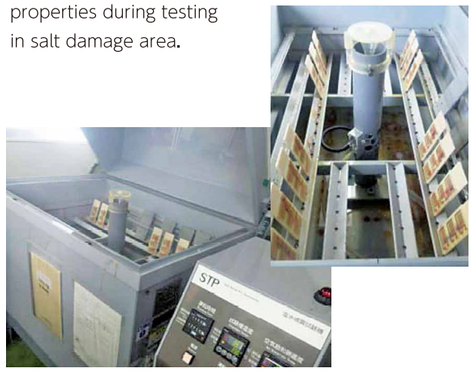


Line up

Item	Solvent	Color	Features
LSS-520MH	Methylcyclohexane	Clear	Excellent heat and moisture-resistance, thermal shock and heat resistance. Environmentally conscious-minimal use of solvents. *The fluorescence features can be easy to see the coating area by black light.
LSS-520MHB		Blue	
LSS-520MHF		Clear*	
LSS-520MHB-K		Blue	Low viscosity type-suitable for curtain coating method. *The fluorescence features can be easy to see the coating area by black light.
LSS-520MHF-K		Clear*	
LSS-540E	Water (ion-exchanged water)	Clear*	Does not contain organic solvents. VOC free (UL-94 V-0) *The fluorescence features can be easy to see the coating area by black light.

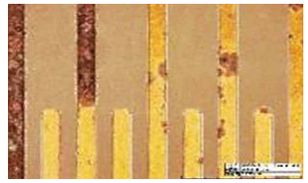
Salt spray test

Product maintains its resistance properties during testing in salt damage area.

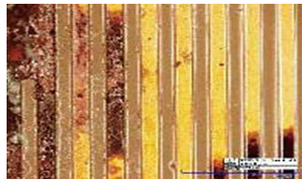


Condition : ISO 9227 (500h)

LSS-520MH



Silicone



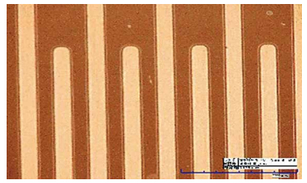
Acrylic

Blank

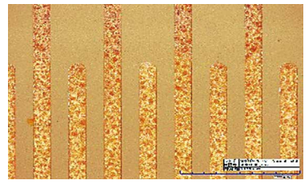
Sulfidizing gas resistance test

Product features sulfidizing gas corrosion resistance.

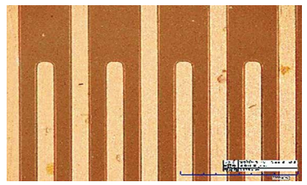
Follow our test cndition



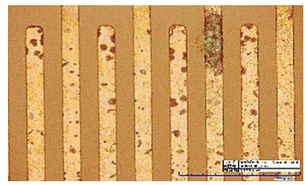
LSS-520MH



Silicone



Acrylic



Blank

General properties

Item	Base (%)	Viscosity (mPa･s)	Set time to touch (min)	Recommendation thickness (μm)	Young's modulus		Growth rate		Moisture vapor permeability (g/㎡･24hrs)
					23℃	−40℃	23℃	−40℃	
LSS-520MH	25	400	5	20～30	75	192	460	120	20
LSS-520MHB	25	400							
LSS-520MHF	25	400							
LSS-520MHB-K	15	40							
LSS-520MHF-K	15	40							
LSS-540E	40	12	15		9.2	270	500	40	35

【Condition】･Base(%) ··· Weight ratio ･Viscosity(mPa･s) ··· 25℃
･Set time to touch(mim) ··· Thickness 20～30μm *The suitable thickness can differ in parts and product specifications.
･Young's modulus ··· Tensile speed 10mm/min ･Elongation ··· 300mm/min
･Moisture vapor permeability (g/㎡･24hrs) ··· 40℃×90℃ thickness 100μm