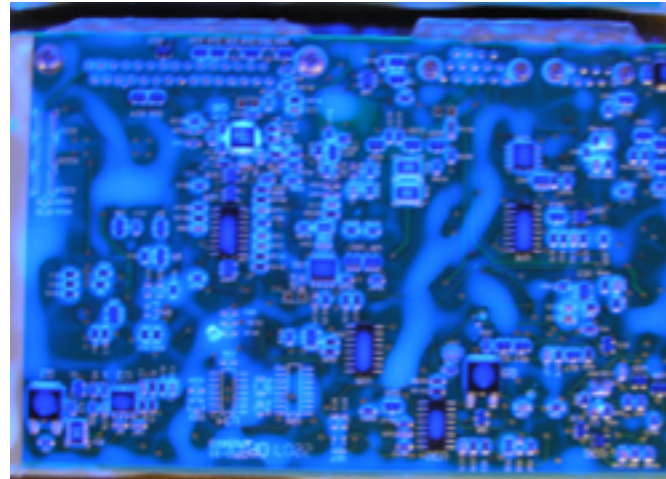
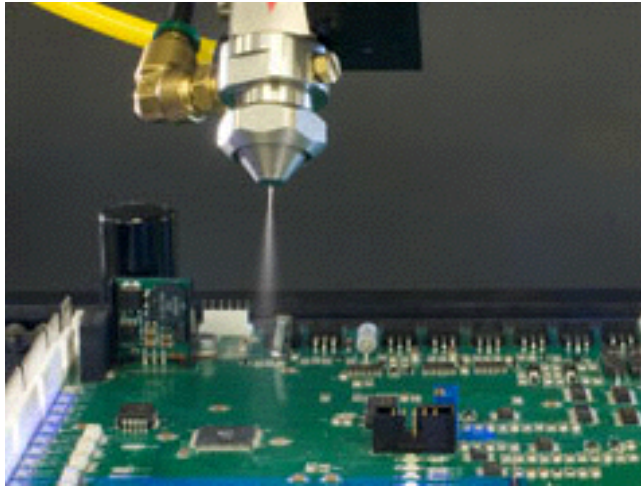


PENCHEM

Bonding Technologies Together

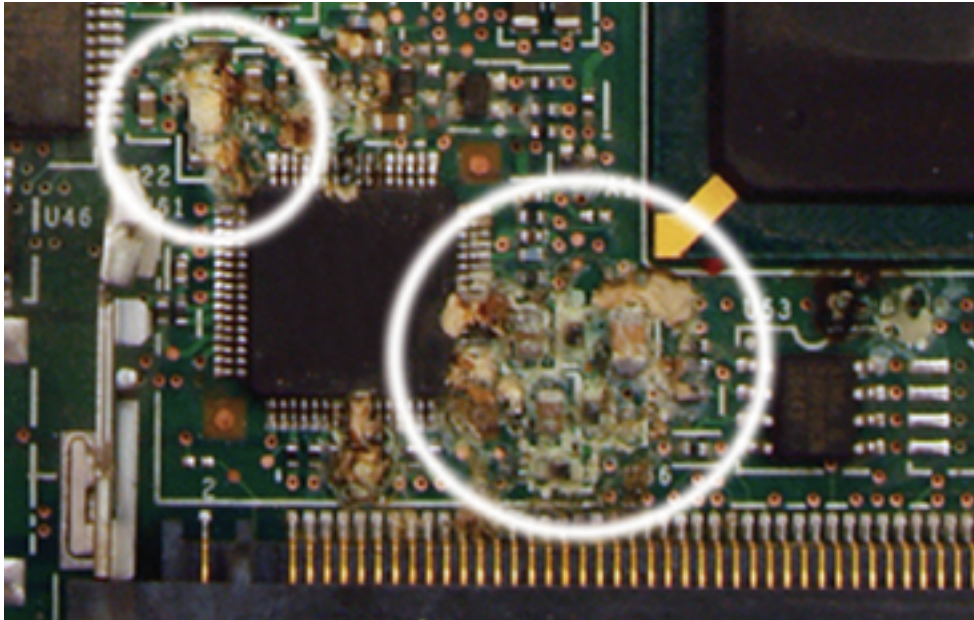


CONFORMAL COATING SOLUTION

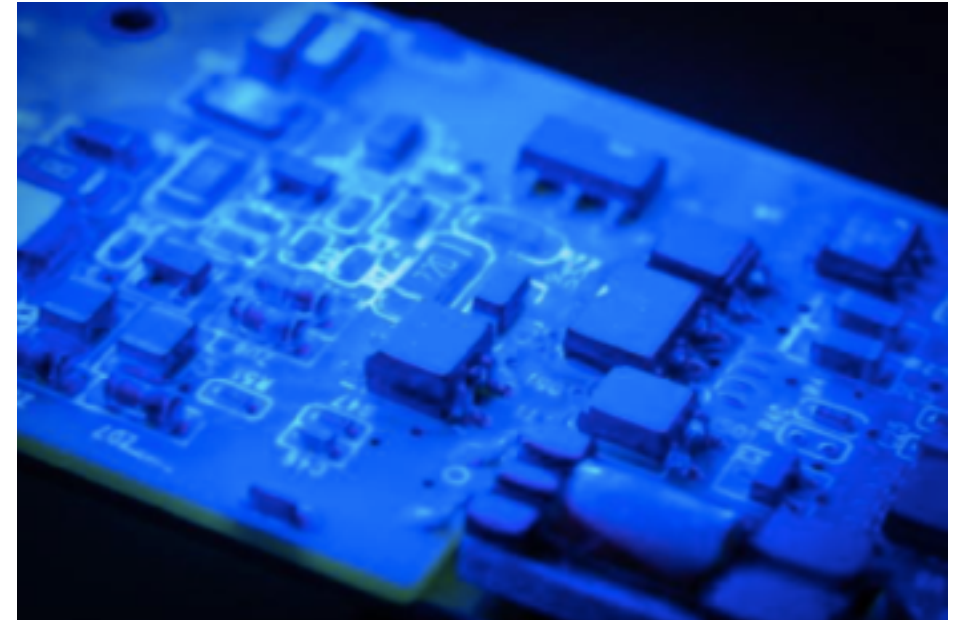
Contact us: 604-5015973,74 & 75 Email:enquiry@penchem.com Website:www.penchem.com

Conformal Coating

Penchem conformal coat is a clear, colorless system suitable for coating and protection of electronic components and printed circuit boards. This conformal coat provides excellent moisture and environmental protection. It is a one-component, solvent based, air-dried coating system. It is recommended for coating and protection of electronic parts, most plastics, ceramics and metals. The 2 parts silicone material which has low viscosity is also able to be used as conformal coating application.



Problem : PCB Corroded and Burned



Solution : Conformal Coating

- Extend the PCB life
- Reduce the repair and maintenance cost

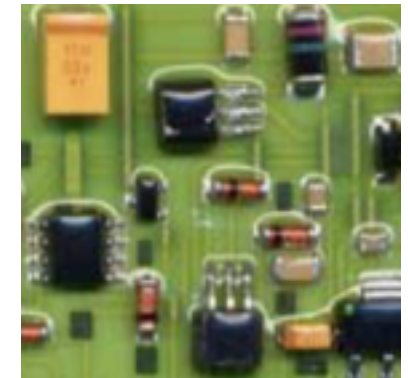
Product Offering

CONFORMAL COATING

Parameter	Unit	CT682	CT684	CT985-5	PT910-9
Curing Profile	°C/hr	25°C/16hr 80°C/30mins	25°C/16hr 80°C/30mins	150°C/1hr	25°C/24hr 80°C/60mins
Shelf life at room temperature	month	6	6	6	12
Color & Appearance	-	Clear & UV fluorescence	Clear	Translucent	Translucent
Material	-	Acrylate	Acrylate	Silicone	Silicone
Mix Ratio	-	1 part system	1 part system	1 part system	2 parts system
Solid content	%	35	35	100	100
Volatile content	%	3.4	3.4	0.2	0.2
Viscosity	cPs	266	274	2,900	4,544
Density_solid	g/cm ³	1.095	1.109	1.0	1.01
Glass Transition Temperature	°C	76	76	-114	-



UV Traceable Acrylate Coat






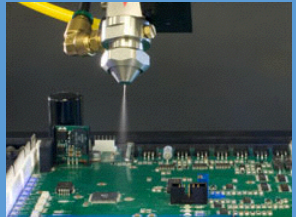
Silicone Coat

Product Selection Guide

Product Code	Area of Application				Features					
	Semiconductor	Micro-electronics	Opto-electronics	Consumer Electronics	Appearance	Viscosity	Hardness	Adhesion	Glass Transition Temperature	Carrier
CT682	•			•	Clear Liquid	•	••	•	••	Acrylic
CT682-1	•			•	Clear Liquid	•	••	•	••	Acrylic (Spray Type)
CT684	•			•	Clear Liquid	•	••	•	••	Acrylic
CT985-5	•	•	•	•	Clear Liquid	•	•	••	•	Silicone
PT910-9 2 Parts	•		•	•	Translucent Liquid	••	•	•	•	Silicone

- Low / Slow
- Moderate / Standard
- High / Fast

Application

Application Method	Advantages	Disadvantages
Dipping 	Moderate Volume Good Consistent Coating	Need some process control due to pot life issue. Require masking
Brushing 	Low Cost	Inconsistent Labour intensive Low Volume
Manual Spray 	Low investment cost Efficient material control	Labour dependent
Automated Spray 	Highest Volume Excellent Consistent Coating Eliminate masking for selective coating	High investment cost

Flame Retardant Conformal Coating * NEW

CT 682-2 is a **Flame Retardant Translucent Acrylic System** suitable for coating and protection of electronic components and printed circuit boards. This conformal coat provides **Excellent Moisture and Environmental Protection**. It is a one-component, solvent-based, **Air-Dried** coating system. It has a fluorescent agent for **Easy Inspection Under UV Light**.

Uncured Properties	Typical Value	Unit	Test Method
Chemical type	Acrylic	-	-
Appearance	Translucent liquid	-	PEN 10
Viscosity, Brookfield RVT, 25°C	385	cP	PEN 11
Density	1.01	g/cm ³	ASTM D792
Solid content	35	%	PEN 19
Cured Properties	Typical Value	Unit	Test Method
Glass Transition Temperature, Tg	85	°C	ASTM D3418
Dielectric constant, 1MHz, 25°C	2.5	-	PEN 21
Flame retardant	V-0	-	Similar method to UL94

* The values above are tested based on batch to batch basis. These values are not use as a basis for preparing specifications.

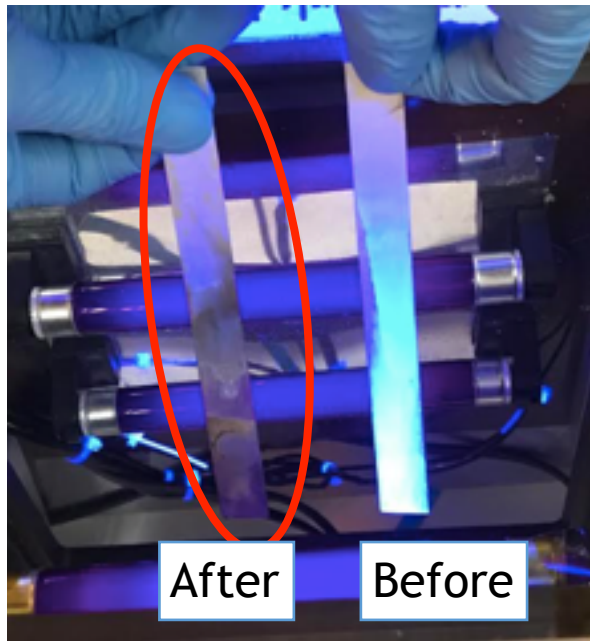
* PEN is referring to Penchem standard test method, ASTM is for Test reference only



CT682-2 Flame Retardant Conformal Coating

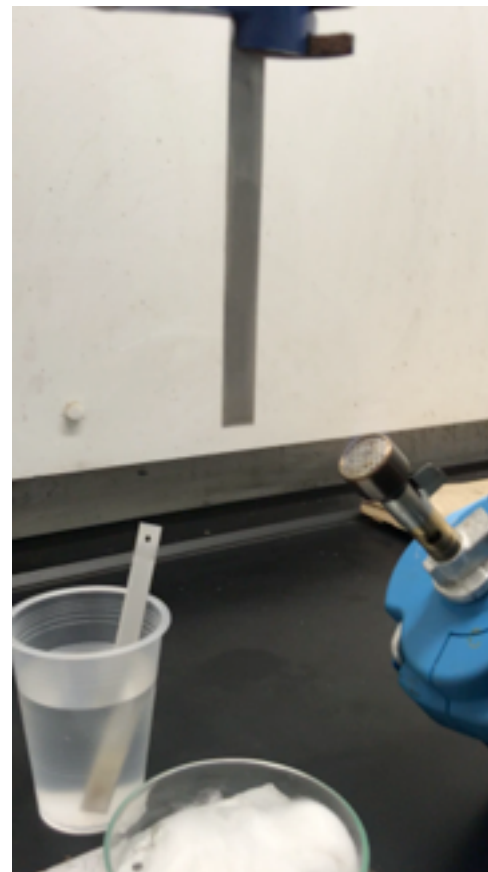


Flammable



The entire coating layer burn off

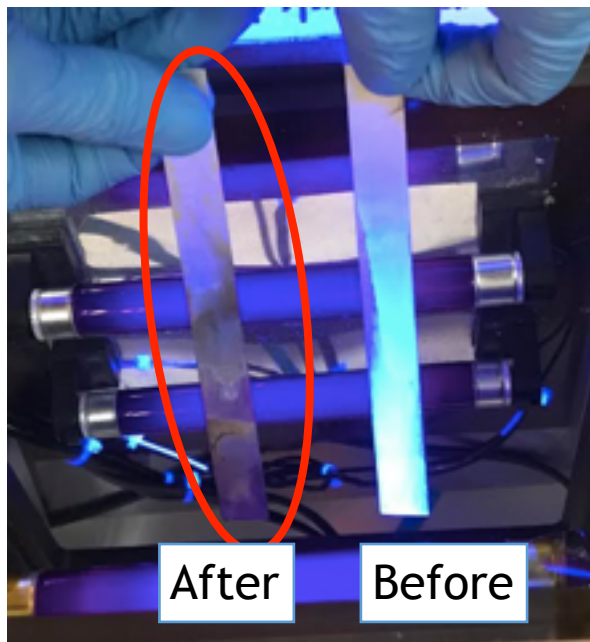
Non Flammable



CT682-2 Flame Retardant Conformal Coating

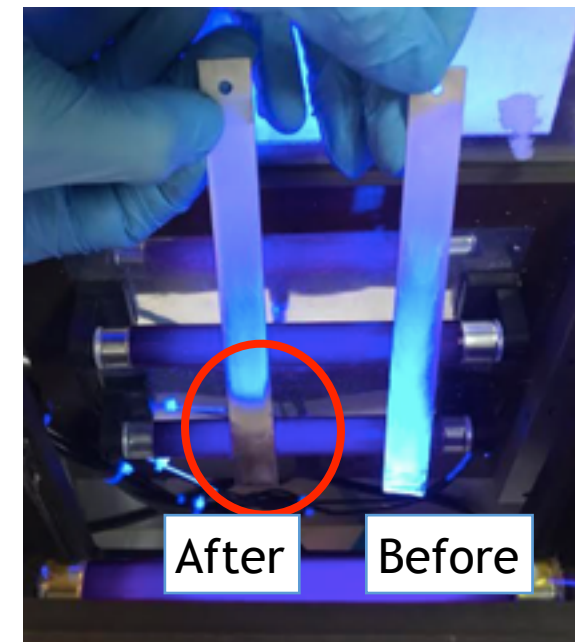


Flammable



The entire coating layer burned off

Non Flammable



The burned off area won't spread

Thanks for your attention
We are ready to support

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