



Cleaning product  
Conformal coating  
Silicone RTVI - RTV2  
Potting's resins  
Service aids  
Repack



# Cleaning product

	NCE	SND	NDD	NCC	SPS*	DRP-10*	CIPEX 40	SEREX 60	MADEX 20
<b>APPLICATIONS</b>	Solvent Contact Cleaner	Solvent PCB cleaning solvent	Solvent Degreaser, flux remover	Solvent Paste and adhesive cleaner	Solvent Stencil solvent	Solvent Degreaser pollutant residues	Waterborne PCB cleaner	Waterborne Screen printing cleaner	Waterborne Service Aids
<b>Flashpoint</b> (°C)	< 0	0	0	0	56	> 55	n.c.	n.c.	n.c.
<b>Evaporation rate</b> (ether=1)	2	16	16	16	64	66	n.c.	n.c.	n.c.
<b>TWA</b> (mg/m <sup>3</sup> )	1400	340	340	340	150	150	n.c.	n.c.	n.c.
<b>Specifications</b>	Very fast drying	Versatile	Orange odour	Service Aids	Service Aids	Degreaser	Flux remover	Paste and glue	Service Aids
<b>Concentrated version</b>	-	-	-	-	-	-	-	-	-
<b>Non-foaming version</b>	-	-	-	-	-	-	CIPEX 50 CIPEX 40/52	SEREX 70 SEREX 62/72	MADEX 30 MADEX 20/30
<b>COMPATIBILITY</b>									
Plastics	yes	yes	yes	yes	yes	yes	yes	yes	yes
Sensitive metals	yes	yes	yes	yes	yes	yes	yes	yes	yes
<b>PACKAGING</b>									
Aerosol	400 ml 1 litre 5 litres -	400 ml 1 litre 5 litres 30 litres	400 ml 1 litre 5 litres 30 litres	400 ml 1 litre 5 litres 30 litres	- 1 litre 5 litres 30 litres	Pompspray 1 litre 5 litres 30 litres	- 5 litres 30 litres	- 5 litres 30 litres	- 5 litres 30 litres

\*: Class A3 - n.c.: Non concerned

Studies show a careful cleaning is essential to remove any kind of contamination (flux residues, oxides, grease...) in order to improve electronic assembly reliability.

ABChimie has developed a range of cleaning and solvent products meeting international military norms (1.54mg Na Cl/cm<sup>2</sup>). All of them are compatible with most plastic substrats which can be found on Pcb's.

Removing contamination will ensure reliability for your pcbc and will guarantee a good adhesion in case of coating.

# Conformal coating

	SVR99	SVPS2	AVR80	UVP63	UVA59	SIL100	AbChimie 120VA
<b>Nature</b>	Silicone Solvent	Silicone Solvent	Acrylic Solvent	Urethane Solvent	Urethane Waterborne	Silicone 100 %	Acrylate 100 % <b>Dual cure</b> UV coating
<b>Viscosity</b> (cp)	165	140	210	150	< 100	100	80
<b>Solids %</b>	34	35	34	38	30	100 %	100 %
<b>Flash point</b> (°C)	< 0	< 0	< 0	36	n.c.	n.c.	n.c.
<b>Temperature range</b> (°C)	-50°C + 125°C	-60°C + 200°C	-60°C + 130°C	-80°C + 130°C	-80°C + 130°C	-50°C + 200°C	-50°C + 150°C
<b>Touch dry time</b> (min)	20	30	10	30	60	30	n.a.
<b>Dielectric strength</b> (kV/mm)	90	90	50	60	60	90	90
<b>Insulation resistance</b> (MΩ)	10 <sup>11</sup>	10 <sup>11</sup>	10 <sup>11</sup>	10 <sup>11</sup>	10 <sup>11</sup>	10 <sup>11</sup>	10 <sup>11</sup>
<b>Breakdown voltage</b> (V)	> 1500	> 1500	> 1500	> 1500	> 1500	> 1500	> 1500
<b>Fast validate of temperature test</b> (°C)	yes	yes	yes	yes	yes	yes	yes
<b>Thermal shock</b> (°C)	yes	yes	yes	yes	yes	yes	yes
<b>SIR testing 15h</b> (h)	yes	yes	yes	yes	yes	yes	yes
<b>Humidity resistance</b> (h)	yes	yes	yes	yes	yes	yes	yes
<b>Solvent resistance</b>	no	yes	no	yes	yes	yes	yes
<b>Thinner</b>	DVS	DVS	DVA	DVU	DEI water	n.c.	n.c.
<b>Stripper recommended</b>	SND	DVP	SND	DVP	DVP	DVP	DVP
<b>Selectcoat Version</b>	SVR99 DS	SVPS2 DS	AVR80 DS	UVP63 DS	UVA59 DS	-	-
<b>Non-toxic Version</b>	-	-	AVR80 BA	-	-	-	-
<b>APPROVALS</b>	UL 94V0	-	UL 300 / NF EN 61080	-	-	-	NF EN 61080
<b>PACKAGING</b>	Aerosol 400 ml 5 litres	Aerosol 400 ml 5 litres	Aerosol 400 ml 5 litres	- 5 litres	- 5 litres	- 5 litres	- 5 litres

ABChimie will provide you with suitable solutions, all of them meeting pcb necessary requirements, as repairing, chemical resistance (salt, air, moisture, fluid, grease...), UV controlling, adhesion properties, dielectric strength... Conformal coating are used in military, aeronautics, automotive, industrial applications... They are mainly applied through : dipping, brushing, spraying and with different select coat machine. All our conformal coatings are available in your specific viscosity.



All our conformal coatings contain optical brightener and fungicide

n.c.: Non Concerned  
Test specimen PC 9-25  
1 • MI = 4025C  
2 • 25+50°C, 100 cycles, solder 15 min, 5°C/min  
3 • 25+50°C, 15min/10min, 50 cycles  
4 • 20/80°C - 30% RH  
5 • 10/80°C, 95% RH + 4h, 30 days  
6 • MI = 4025C

# Silicones

	Product	Colour	Nature	Consistency	Viscosity	Hardness	Temperature range (°C)	Approvals	Specifications	
ROOM TEMPERATURE CURE	<b>ONE-COMPONENT</b>									
	RTV 102 103 106* 108	White, black, red, translucent	Acetoxy	Thixotropic	nc	30	-60° C + 205° C	A,B,C,D	-	
	RTV 112 116* 118	White, red, translucent	Acetoxy	Self-levelling	nc	30	-60° C + 205° C	A,B,C,D	-	
	RTV 122 123 128	White, black, translucent	Alkoxly	Thixotropic	nc	45	-60° C + 205° C	C	Neutral	
	RTV 133	Black	Alkoxly	Thixotropic	nc	40	-60° C + 205° C	E	High temperature	
	RTV 157 159	Grey, red	Alkoxly	Thixotropic	nc	27	-60° C + 205° C	-	High temperature	
	RTV 160 162	White	Alkoxly	Self-levelling thixotropic	nc	28	-60° C + 205° C	A	Neutral	
	RTV 1473	Black	Acetoxy	Thixotropic	nc	33	-60° C + 205° C	-	Thermal conductivity	
	TSE 3940 - 3941	Grey, white	Alkoxly	Thixotropic	nc	40, 60	-60° C + 205° C	E	Thermal conductivity 0.85W/mK	
	TSE 3932 3929	Transparent, white	Alkoxly	Thixotropic	nc	30	-60° C + 205° C	-	-	
	TSE 3937 3937W	Transparent, white	Alkoxly	Self-levelling	50000	20	-60° C + 205° C	-	-	
	TSE 3936 3939W	Transparent, white	Alkoxly	High flowable	2500	30	-60° C + 205° C	-	-	
R1531	Black	Benzamide	Self-levelling	55000	30	-60° C + 200° C	-	Fast cure		
HEAT CURE	TSE 322, 322B	Clear blue, black	Addition	Self-levelling	120000	44	-60° C + 205° C	-	Adhesion	
	TSE 325	White	Addition	Liquid	3500	16	-60° C + 205° C	-	Adhesion, adhesion, potting	
	TSE 326 326M	Red	Addition	Flowable	40000	46	-60° C + 260° C	-	Adhesion, thermal conductivity	
	TSE 3291-G	Grey	Addition	Self-levelling	-	-	-60° C + 205° C	-	Adhesion	
	TSE 3051 3051FR	Transparent	Addition	Liquid	700	GEL	-60° C + 205° C	UL94V1	-	
TWO-COMPONENT	RTV 11	White	Condensation	Flowable	12000	45	-60° C + 205° C	B	Potting	
	RTV 12+B/C	translucent blue	Addition	Flowable	1900	15	-60° C + 205° C	-	Removable	
	RTV 60	Red	Condensation	Flowable	50000	60	-60° C + 205° C	-	Aeronauc high temperature	
	RTV 570	White	Condensation	Paste	600000	50	-115° C + 260° C	-	Aeronauc	
	SEA 211	Black	Condensation	Thixotropic	-	37	-45° C + 135° C	-	High mechanical strength	
	RTF 762	White	Addition	High viscosity	70000	Foam	-54° C + 204° C	-	Closed cell	
	RTV 420	White	Condensation	Flowable	30000	20	-54° C + 204° C	-	Molding	
	TSE 3062	Transparent	Addition	High flowable	1000	GEL	-54° C + 204° C	-	Fast cure	
	TSE 3331	Black	Addition	Flowable	3500	60	-50° C + 250° C	E	0.85W/mK, heat cure	
	RTV 615	Transparent	Addition	High flowable	4000	45	-60° C + 205° C	-	Optic quality	
	RTV 6157	Transparent	Addition	High flowable	600	GEL	-37° C + 200° C	-	Gel	
	RTV 664	Clear blue	Addition	Flowable	110000	60	-60° C + 205° C	-	Food contact	
	RTV 668	Beige	Addition	Flowable	115000	55	-60° C + 205° C	-	PU molding	
	RTV 630	Blue	Addition	Flowable	180000	70	-60° C + 205° C	-	Abrasion resistance	
	RTV 627	Black	Addition	High flowable	2000	65	-60° C + 205° C	E	-	
	R1791	Transparent	Addition	High flowable	1000	Gel	-55° C + 200° C	-	Gel	

A : MIL A-46106A - B : FDA - C : UL - D : NSF - E : UL94V0 - \* - 60° C + 260° C

Silicone products are one or two-component elastomeric material, ready to use for assembling, joining, potting.... Chemical and mechanical silicone performances allow a wide range of use and an excellent reliability, even for extreme temperatures (-115°C +315°C).

One component RTV can be used up to a 6mm thickness. Over 6 mm, two-component products should be used.

A range of silicon primers is available for high adhesion requirements.





# Resins

High performance resins are especially designed to offer a wide range of possibilities to protect your electronic assemblies.

Epoxy and urethane resins may be used with a mixing equipment or by hand.

Moreover, resins have high insulating performances regarding environment challenges and contribute to provide a mechanical protection to your Pcb.

Specifications	POLYURETHANE					EPOXY		
	U42-91 	U69-03	U69-12	U69-20	U69-42	ST1611A	ST21A	ST1626 
<b>Catalyst</b>	U42-91B	U000B	U001B	U001B	U001B	ST1611B	CA51	ST1626B
<b>Viscosity</b> (cp)	500	100	900	2500	1500 - 2000	2000	1500	15000
<b>Specific gravity</b>	1.05	1.1	1.27	1.5	1.44	1.1	1.6	1.15
<b>Temperature range</b>	-50 + 120°C	-20 + 100°C	-40 + 120°C	-50 + 120°C	-50 + 150°C	-50 + 150°C	-50 + 150°C	-40-60°C
<b>Ratio</b> (by weight)	100 : 27	100 : 50	100 : 22	100 : 25	100 : 16	100 : 45	100 : 9	100 : 100
<b>Dielectric strength</b> (kV/mm)	14	25	22	18	22	15	20	15
<b>Pot life</b> (min)	20	0,5	40	5	15-20	20	30-40	6
<b>Gel time</b> (min)	30	2	80	10	30	40	50-90	10
<b>Hardness</b> (shore)	Frangible	D70	A75	D65	D35	D80	D90	D80
<b>Colour</b>	Brown	Beige	Green	White	White, black, red	Transparent	Black	Transparent
<b>Thermal conductivity</b> (w/mK)	-	-	0,5	0,6	0,65	-	0,75	-
<b>Tg</b> (°C)	-	50	<25	40	<25	70	60	40
<b>Approvals</b>	no	no	UL94V0 (6mm)	UL94V0 (6mm)	UL94V0 (6,4mm)	no	UL94V0 (4mm)	no

Polymerised resin stripper : SRP 05L

Liquid resin stripper : SRL 05L

## Service Aids

Reference	Application	Packaging	Sold by
<b>Solvent / Cleaner</b>			
DET400B	Label remover	Aerosol 400 ml net	12
ISO200	Isopropyl alcohol	Aerosol 200 ml net	12
ISO01L	Isopropyl alcohol	Can 1litre	6
LCD100	Screen cleaner	Pompspray 100 ml	12
NCC400	Paste and adhesive cleaner	Aerosol 400 ml net	12
NCE400b	Contact cleaner	Aerosol 400 ml net	12
NC1400	Nonflammable contact cleaner	Aerosol 525 ml net	12
NEG400	Ink cleaner	Aerosol 400 ml net	12
NPP30L	Cleaner	30 Litres	1
NT400	Antistatic cleaner	Aerosol 400 ml net	12
RNC01L	Rubber roller restorer	1 Litre	6
RNG100	Rubber roller restorer	Pompspray 100 ml	12
SND400B	PCB cleaner	Aerosol 400 ml net	12
<b>Conformal coating</b>			
AWR80 BA 10 ML	Non-toxic Acrylic removable coating	Flask 100 ml	12
LDM 250ML	Pelable mask (latex)	Bottle 250 ml	12
SVPS2 10ML	Silicone resistant coating	Flask 10 ml	12
SVR99 10ML	Silicone removable coating	Flask 10 ml	12
VBR 10ML	Red blocking coating	Flask 10 ml	12
<b>Service Aids</b>			
ABSouffle	High powered air duster	Aerosol 335 ml net	12
ABmousse	Powerful foaming cleaner	Aerosol 400 ml net	12
ABduster	Air duster	Aerosol 335 ml net	12
ABfroid	Freezer	Aerosol 335 ml net	12
CCY20	Cyanoacrylate	Flask 20 ml	12
<b>Lubricants</b>			
DSU400	Universal silicone mould release	Aerosol 400 ml net	12
LSP400	Dry lubricant	Aerosol 400 ml net	12
LSU400	Universal silicone lubricant	Aerosol 400 ml net	12
LTM400	Multi purpose oil	Aerosol 400 ml net	12
CLD400	Decidifier lubricant	Aerosol 400 ml net	12

