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Cleaning Solvents

Solvent Cleaners

**ULS – Ultrasonic**

- Fast drying solvent blend
- Removes flux, dirt and grease
- Suitable for PCB and electronic assembly cleaning
- Safe on most plastics
- 100% Ozone Friendly

ECSP – Electronic Cleaning Solvent Plus

- Super fast evaporating solvent
- Removes grease, dirt and most fluxes
- Completely residue free
- 100% Ozone Friendly

FLU – Fluxclene

- Excellent cleaner for flux, grease and general grime
- Completely residue free
- Safe on most plastics, rubbers and elastomers
- 100% Ozone Friendly

IPA – Isopropanol

- High purity, electronics grade IPA
- Cleans PCBs and assemblies to leave a residue free surface
- 100% Ozone Friendly

Warning: All the above contain flammable contents, do not use on live circuits or near any source of ignition, use in a well ventilated area.

- Please check with Sales Office for availability

CHM129

	Mfrs. List No.	Order Code	1+	12+	36+	144+
200ml Aerosol	ULS200D	.298-335				
400ml Aerosol	ULS400D	.298-207				
400ml Aerosol (Brush)	ULS400DB	.725-651				
1 Litre Tin	ULS01L	.298-219				
200ml Aerosol	ECSP200D	.521-723				
200ml Aerosol (Brush)	ECSP200DB	.725-640				
400ml Aerosol	ECSP400D	.521-735				
200ml Aerosol	FLU200D	.298-165				
400ml Aerosol	FLU400D	.298-177				
400ml Aerosol (Brush)	FLU400DB	.725-663				
1 Litre Tin	FLU01L	.298-189				
200ml Aerosol	IPA200H	.130-620				
400ml Aerosol	IPA400H	.279-511				
1 Litre Tin	IPA01L	.106-970				

Speciality Cleaners

**LRM – Label Remover**

- Removes paper labels quickly and efficiently
- Spray on, leave for five minutes and peel off
- Very stubborn labels may require multiple applications
- Test on sensitive plastics
- 100% Ozone Friendly

PRS – Printasolve

- Removes ink (solvent or oil based) from most surfaces
- High effective and economic to use
- Re-textures rubber print rollers
- 100% Ozone Friendly

ULC – Ultraclean

- Slow drying solvent blend
- 100% Ozone Friendly
- Recommended for cold cleaning
- Powerful penetrating action
- High flash point reducing risk of fire
- Non-flammable in bulk (1 Litre)

Warning: All have flammable contents, do not use on live circuits or near any source of ignition, use in a well ventilated area.

- Please check with Sales Office for availability

CHM108

	Mfrs. List No.	Order Code	1+	12+	36+	144+
200ml Aerosol	LRM200D	.451-289				
12ml Pen	LRM12P	.725-638				
400ml Aerosol	PRS400D	.521-711				
200ml Aerosol	ULC200D	.451-290				
400ml Aerosol	ULC400D	.451-307				
1 Litre Tin	ULC01L	.279-547				

Solvent Cleaners

**VID – Magnetic Head Cleaner**

- Super fast evaporating blend of solvents
- Removes dirt and oxides from tape heads
- Reduces the incidents of read/write errors
- 100% Ozone Friendly

SSC – Screen and Stencil Cleaner

- Fast evaporating solvent for the removal of excess solder paste from screen and stencils
- Spray on to stencil or screen at an angle and allow excess paste to run off
- Spray onto cloth (Safecloth, Safewipe etc.) and wipe screen or stencil carefully, take care with fine pitch screens to clean all apertures
- Removes no-clean paste and water washable as well as RA and RMA

Warning: The above products are highly flammable, do not use on live circuits or near any source of ignition, use in a well ventilated area.

- Please check with Sales Office for availability

MDS – Metal Degreasing Solvent

- Powerful, chlorinated solvent, non-ozone depleting
- Removes heavy grease and grime
- Fast evaporating
- Test on sensitive plastics
- Non flammable

VIDP – Non-flammable Magnetic Head Cleaner

- Non-flammable, super fast evaporating solvent
- Suitable for removing oxide deposits from tape heads
- May be used on live equipment
- Ideal for use in broadcasting environments

SSS – Screen and Stencil Solvent

- Non-flammable (flash point >61°C) solvent to remove solder paste and adhesive from screens and stencils
- Spray on to stencil or screen and wipe clean carefully with Safecloth or Safewipe
- Removes no-clean paste and water washable as well as RA and RMA

CHM27

	Mfrs. List No.	Order Code	1+	12+	36+	144+
100ml Aerosol	VID100	.604-082				
1 Litre tin	MDS01L	.891-307				
400ml Aerosol	SSC400	.958-384				
200ml Aerosol	VIDP200	.725-584				
500ml Trigger Spray	SSS500ML	.634-890				

Aqueous Cleaners

**SWA400H – Safewash**

- Safewash J in convenient aerosol format
- Integral brush for ease of use
- Removes most common fluxes
- Removes dirt, grease and grime
- MUST be rinsed after use

Warning: Flammable propellant, do not use on live circuits or near any source of

- Please check with Sales Office for availability

WAJ – Safewash J

- Aqueous cleaner for PCBs, jigs and assemblies
- Inhibited Safewash for use with sensitive metals
- Use with ultrasonic or pressure washers
- Cleans to within MIL specifications
- MUST be rinsed after use

SRI400H – Saferinse

- Pure blend of IPA and de-ionised water for rinsing after using Safewash
- Biodegradable
- Non-flammable
- Gives final polish after tap water rinsing

Warning: Do not use on live circuits

- Please check with Sales Office for availability

SWAS – Safewash Super

- Aqueous cleaner for PCBs and assemblies
- Latest high efficiency Safewash with inhibition for sensitive metals
- Use with ultrasonic or pressure washers
- Rinses quickly and from under low set components
- Removes most 'no-clean' fluxes
- Low odour
- MUST be rinsed after use

DEI – De-ionised Water

- Recommended as the final rinse after using Safewash and a tap water rinse
- May be used for any application where hard water deposits cause a problem

CHM147

	Mfrs. List No.	Order Code	Price Each			
			1+	12+	36+	144+
400ml Aerosol	SWA400H	.451-265				
400ml Aerosol	SRI400H	.451-277				
			1+	6+	12+	144+
5 Litre	SWAJ05L	299-250				
5 Litre	SWAS05L	725-687				
			1+	6+	12+	48+
1 Litre	DEI01L	891-253				
5 Litre	DEI05L	891-265				

SMT Stencil & Screen Cleaners



StencilWorks™ IPA Presaturated Stencil Wipes

General purpose presaturated wipe for cleaning solder paste off of SMT stencils

- Plastic safe
- Regular cleaning strength sometimes required to remove solder
- High absorbency paste from SMT stencil surfaces
- Holds up to the most rigorous scrubbing
- Strong, will not tear, shred, unravel or lint

StencilWorks™ IPA Stencil & Screen Cleaner

General purpose cleaner for penetrating and cleaning solder paste from SMT stencils & screens

- Plastic safe
- Regular cleaning strength
- Ideal for use with StencilWorks IPA Presaturated Wipes or with Chemtronics Controlwipes Dry Wipes (C910)
- Available in aerosol and liquid

Warning: Both the above products contain flammable contents, do not use near any source of ignition, use in a well ventilated area

- Please check with Sales Office for availability

Mfrs. List No. SIP1GI = 128-879, SIP16I = 128-867, SIP100PI = 128-855

CHM332

	Size	Order Code	Price Each			
			1+	12+	36+	72+
Stencil Wipes	100 Wipes	128-855				
Screen Cleaner	400ml Aerosol	128-867				

Screen & Stencil Wipes



- Effectively removes both solder pastes and adhesives
- 100 high wet strength fabric wipes, pre-saturated with a solvent based cleaner
- Re-sealable tub allows easy dispensing, whilst retaining the solvent saturation
- Fast drying and non staining with a low odour
- Non flammable
- Wearing of gloves is recommended when using the wipes

CHM349

100 Per Pack		Price Per Pack			
Mfrs. List No.	Order Code	1+	5+	10+	
SSW100	305-2000				

Cleaners/Degreasers



Electro-Wash® Cleaner Degreasers are general purpose electronics and electrical cleaning products. Some can be used in ultrasonic systems. They are engineered to clean a wide variety of soils including oils, greases, oxides.

Product	Features				Cleaning Methods				
	Non-Flammable	Fast Drying	Plastic Safe	Cleaning Strength	Aerosol	BrushClean® System	Trigger Spray	Ultrasonics	Cold Immersion
Electro-Wash® PX		X	X	Xtra Strength	X	X			X
Electro-Wash PR Cleaner Degreaser		X	X	Regular Strength	X				
Chem-Solv® Cleaner Degreaser	X			Xtra Strength				X	X

Electro-Wash® PX Cleaner Degreaser

The extra-strength universal cleaner degreaser safe for use on plastics

- Flammable
- Fast drying leaving no residue
- Safe on plastics
- Extra cleaning strength
- Available in BrushClean® System for removing stubborn soils
- All-way spray valve allows use when inverted
- Cleans hard-to-reach areas
- Available in liquid form

Electro-Wash® PR Cleaner Degreaser

The regular strength cleaner safe for use on plastics

- Flammable
- Fast drying leaving no residue
- Safe on plastics
- Regular hard-to-reach areas
- All-way spray valve allows use when inverted

Electro-Wash Two Step® PR Cleaner Degreaser

The regular strength cleaner safe for use on plastics

- Nonflammable
- Use Electro-Wash Cleaner Degreaser to rinse and dry surface fast or rinse water
- Extra cleaning strength
- Cleans solder paste and inks from screen and stencils
- removes conformal coatings
- Test on plastics

Mfrs. List Nos. ES1010E = 860-437, ES810BE = 860-359, ES110E = 313-3485, ES1603E = 860-360, ES125AE = 313-3497

CHM197

Cleaner Degreaser	Size	Order Code	Price Each			
			1+	12+	36+	72+
Electro-Wash®PX	400ml Aerosol	860-347				
Electro-Wash®PX	5 Litre	313-3485				
Electro-Wash PR	400ml Aerosol	860-360				
Electro-Wash Two Step 5 Litre		313-3497				

Continued

The More You Order... The More You Save!

Purchases of certain products sold in pack multiples will be grouped together to give you the total quantity price.

Cleaning Solvents — continued

Flux Removers



Chemtronics
Flux-Off Flux Removers are specially formulated to remove all types of rosin (types R, RA, RMA), rosin-based no clean, synthetic-based no clean (type SA) and water soluble (type OA) flux. They are available in aerosol, BrushClean® System, and liquid form for benchtop dispensers and ultrasonic or dip tank applications. All products are safe for use on plastics.

Product	Primary Flux Removed			Features			Cleaning Methods			
	Rosin-Based (R, RMA, RA, No Clean)	No Clean (SA-Synthetic)	Water Soluble	Non-Flammable	Fast Drying	Plastic Safe	Aerosol	BrushClean® System	Ultrasonics	Cold Immersion
Flux-Off® CZ	X	X*	X	X	X	X	X	X		
Flux-Off® Rosin	X				X	X	X	X		X
Flux-Off® Water Soluble			X			X		X		
Flux-Off® Aqueous	X	X	X	X		X			X	X

* Test on synthetic no clean flux

Flux-Off® CZ Flux remover

The first non-ozone depleting, nonflammable flux remover safe for use on plastics

- Nonflammable
- Removes flux from hard-to-reach areas
- All-Way Spray Valve allow use when inverted
- Fast Drying leaving no residue
- Cleans rosin, water soluble and most no-clean flux
- Contains CEROZANE® CFC Replacement Chemistry made with HFE from 3M
- Available in BrushClean® System for removing stubborn stains

Flux-Off® Rosin

The plastic safe flux remover for cleaning rosin and rosin-based no-based flux

- Flammable
- Fast drying leaving no residue
- All-Way Spray Valve allows use when inverted
- Removes flux from hard-to-reach areas
- Available in BrushClean® System for removing stubborn residues
- Liquid version available

Flux-Off® Water Soluble

The plastic safe flux remover for removing water soluble flux from water sensitive areas

- Flammable
- All-Way Spray Valve allows use when inverted
- Removes flux from hard-to-reach areas
- Moderate to fast drying leaving no residue
- Available in BrushClean® System for removing stubborn residues

Flux-Off® Aqueous Flux Remover

The aqueous flux remover for use in ultrasonics and other aqueous cleaning systems

- Nonflammable
- No spotting
- Contains no silicates, abrasives, or caustics
- Cleans all flux types including rosin, synthetic no clean, and water soluble flux
- Use Flux-Off flux remover to rinse and dry surface fast or rinse with water

Mfrs. List No. ES7200E = 957-021, ES7208BE = 957-033, ES835BE = 860-426, ES1035E = 760-414, ES135E = 313-3461, ES830BE = 860-402, ES132E = 313-3473

CHM198

	Size	Order Code	1+	12+	36+	72+
Flux-Off® CZ	400ml Aerosol	957-021				
Flux-Off® CZ	200ml BrushClean®	957-033				
Flux-Off® Rosin	400ml Aerosol	860-426				
Flux-Off® Rosin	200ml Brushclean	860-414				
Flux-Off® Rosin	5 Litre	313-3461				
Flux-Off® Water Soluble	200ml BrushClean®	860-402				
Flux-Off® Aqueous	5 Litre	313-3473				

Contact Cleaners

**Chemtronics**

Contact cleaners remove oils, greases and oxides from contact surfaces. they restore the electrical continuity of contacts, switches, relays and connectors. Recommended for cleaning all types of electronic and electrical contact assemblies including:

- Metal or Plastic embedded contacts
- Fuse blocks
- Potentiometers, Relays or Circuit breakers
- Electrical panels & Electronic controls

Products	Features			
	Non-flammable	Fast Drying	Plastic Safe	Cleaning Strength
Pow-R-Wash® CZ Contact Cleaner	X	X	X	Regular Strength
Pow-R-Wash® PR		X	X	Regular Strength

Pow-R-Wash® CZ Contact Cleaner

The first non-ozone depleting, nonflammable cleaner safe for use on powered-up contacts and surrounding plastics

- Nonflammable
- Fast Drying
- Safe on plastics
- All-Way Spray Valve allows use when inverted
- Contains CEROZANE® CFC Replacement Chemistry made with HFE from 3M
- Cleans hard-to-reach areas
- Leaves no residue
- Regular Cleaning Strength

Pow-R-Wash® PR Contact Cleaner

The regular-strength contact cleaner for use on plastics

- Fast Drying
- Safe on plastics
- Regular Cleaning Strength
- Leaves no residue
- Cleans hard-to-reach areas
- All-Way Spray Valve allows use when inverted

Warning: Flammable contents, do not use on live equipment

- Please check with Sales Office for availability

CHM199

	Mfrs. List No.	Size	Order Code	1+	12+	36+	72+
Pow-R-Wash® CZ	ES7308E	200ml	957-045				
Pow-R-Wash® CZ	ES7300E	400ml	957-057				
Pow-R-Wash® PR	ES1605E	400ml	860-384				

Service Aids

Airdusters and Freezers

**MCF – Minimal Charging Freezer**

- Freezer suitable for use on all components
- Will not induce static charge in sensitive components, e.g. memory chips
- Frost forming product allowing visual frost dissipation as a test method as well as fault eradication
- Cools to at least -50°C
- Non-flammable

EAD – Air Duster

- 100% Ozone Friendly
- Pure compressed air
- Consistent high pressure with no hand-freezing effect
- Non-flammable
- Only invert EAD1200D
- Use in short bursts

Note: If the non-invertible version is inverted when in use, a liquid will be expelled resulting in a freezing effect.

FRE – Freezer

- Freezer suitable for use on all non-static sensitive devices
- Allows frost dissipation and fault eradication at low temperature as test methods
- May be used to achieve shrink fit of metal components
- May be used to remove adhesive, chewing gum etc.
- May be used as a plumber's freezer by temporarily freezing the water
- Cost effective
- Cools to at least -50°C
- Non-flammable

CHM3

Chemtronics®

	Mfrs. List No.	Order Code	1+	12+	36+	144+
200ml Aerosol	MCF200	.891-204				
400ml Aerosol	MCF400	.891-216				
200ml Aerosol	FRE200	.891-228				
400ml Aerosol	FRE400	.891-230				
Invertible						
200ml Aerosol	EADI200D	.249-713				
Non-Invertible						
200ml Aerosol	EAD200D	.130-631				
400ml Aerosol	EAD400D	.249-737				

High Power Airdusters



GDP400 Airduster

- High power, cost effective Airduster
- Powerful initial blast with minimal drop off
- Use to remove dust from delicate and inaccessible areas
- Non-flammable, pure compressed gas
- Do not tilt more than 60° from the vertical and use in short bursts

EADP Airduster

- Ultra high power airduster
- High pressure blast for removing particularly stubborn dust
- Pure, inert compressed gas
- Non-flammable
- Do not tilt more than 60° from the vertical

CHM320

	Mfrs. List No.	Order Code	1+	10+	50+	100+
400g Aerosol	GDP400	.130-424				
470g Aerosol	EADP400	.302-6840				

Airdusters

Chemtronics®



Dusters remove dust, dirt and other dry contaminants from all kinds of surfaces. Ultrajet dusters can be used to economize on solvent usage by removing layers of dry particulate first so the solvent can work immediately on the more difficult-to-remove soils.

Dusters can be used to clean:

- Printed circuit boards
- Photographic equipment
- Off equipment
- Electronic instruments
- Contacts & connectors

Ultrajet® Duster & Ultrajet® All-Way Duster

- Non-flammable
- Made with HFC-134a
- Safe on plastics
- Leaves no contaminating residue
- Biggest blast of any duster
- **All Way Duster** can be sprayed in any direction, even inverted, without the risk of dispensing a liquid spray that can freeze or damage sensitive surfaces

Duster

- Economical, regular strength duster
- Safe on plastics
- non-flammable
- Ozone safe, CFC/HCFC free
- Made with HFC-134a

Duster Product	Features	
	Power	Invertible All Way Spray
Ultrajet® Duster	X	
Ultrajet® All-Way Duster	X	✓
Duster	R	

R = Regular X = Extra Cleaning Strength

CHM177

	Mfrs. List No.	Order Code	1+	12+	36+	72+
Ultrajet®	400ml ES1520E	.860-438				
Ultaset® All-Way Duster	200ml ES1620E	.128-818				
Duster	400ml ES1617E	.153-540				

Antistat and Freez-It®



Freez-It® Antistat

- Non-flammable
- Leaves no residues
- Non abrasive
- Fast cooling to -50°C
- Contains no ozone depleting compounds
- Anti-static option minimises generation of static electricity
- Suitable to use as heat sink protection during soldering/desoldering and testing thermosensitive components

400ml Aerosol

Freez-It®

- Quickly lowers temperature to -51°C
- Non flammable
- Ultra-Pure formulation leaves no residue
- Nonabrasive, safe for most surfaces
- Contains no ozone depleting components

Made with HFC134a

CHM187

	Mfrs. List No.	Order Code	1+	12+	36+	72+
Freez-It	ES1550E	.860-440				
Freez-It Antistat	ES1551E	.860-451				

Rework Solder Flux – SMFL



200ml aerosol

- Quick drying aerosol flux for aiding rework of surface mount assemblies
- Use prior to desoldering to aid removal of excess solder paste from boards and resoldering new components
- Provides excellent solderability
- Non tacky, non corrosive residue can be removed using solvent cleaners see page 600
- Spray flux can also be used as an anti-tarnish, protective film on copper or tinned tracks

CONTAINS: CO2

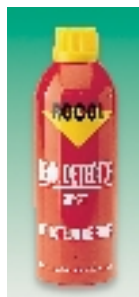
Warning: Flammable contents, do not use on live equipment or near any source of ignition, use in a well ventilated area.

- Please check with Sales Office for availability

CHM121

	Mfrs. List No.	Order Code	1+	5+	12+
SMFL200D		.298-311.			

Gas Leak Detector Spray



- Aqueous based fluid
- Detects positive pressure gas leaks
- Foams at location of leak when sprayed on suspect area

CONTAINS: CO2

Operating temperature 0°C to +50°C

300ml Aerosol

CHM110

	Mfrs. List No.	Order Code	1+	12+	36+	96+
32030		.603-934				

Continued

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603

Electrochemicals, Service Aids & Paints

Service Aids — continued

Engineers Pen



Clear Protective Lacquer Pen

- Spot application of glossy lacquer to labels and touching up PCB's after repair

Edge Connector Pen

- High performance lubricant in flammable solvent
- Offers excellent electrical, mechanical and high temperature properties

Clear Mechanical Oil Pen

- Contains Molybdenum Disulphide for enhanced characteristics

Flux Pen

- Zero halide product
- Does not leave corrosive residue
- Excellent solderability and reliability
- Contains MIL-14256E approved flux

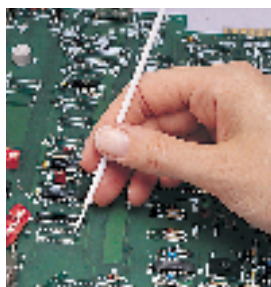
Ultrasonic Pen

- Fast evaporating solvents leaving no residue
- Removes flux, grease and general contamination from most plastics and elastomers

CHM168

	Mfrs. List No.	Order Code	1+	5+	10+	20+
Clear Protective Lacquer	CPL12P	891-150				
Edge Connector	EOP12P	891-162				
Clear Mechanical Oil	CMO12P	891-174				
Flux Pen	SMF12P	891-186				
Ultrasonic	ULS12P	891-198				

Swabs



Foamtips® and Chamois Tips®

Foamtips® Pro – Double-end provides two cleaning surfaces. Blue scrubbing side and white foam. Bendable 152mm polypropylene handle, 100 ppi foamhead.

Foamtips® 130 – Elongated swab with rigid head to clean fine components. Polypropylene handle, 100 ppi foamhead.

Foamtips® 140 – Miniature swab with rigid head for hard to reach areas. Polypropylene handle, 100 ppi foamhead.

Foamtips® 150 – Full sized foam head over cotton bud for extra absorbency. Wooden handle, 100 ppi foamhead.

Chamois Tips® – Ultra-cleaned synthetic chamois material for cleaning and polishing video tape heads. ABS handle.

Microtips®

- Precision solvent and adhesive applicator
- Low particulate levels
- Compatible with most solvents

CHM139

50 Per Pack Type	Mfrs. List No.	Order Code	1+	12+	24+
Foamtip Pro	CFP50	860-773			
Foamtip 130	CF3050	860-785			
Foamtip 140	CF4050	860-797			
Foamtip 150	CF5050	860-803			
Chamois Tip	CC50	860-815			
Microtips	CM502	860-827			

Chemswab™



- Pre-saturated cotton bud with iso-propanol
- Easy to use
- Evaporates quickly with no residue or contamination

- Non-abrasive
- Ideal for keyboards, magnetic heads, electronic components and in field service kits

CHM166

25 Per Pack

Mfrs. List No. CS25
Order Code 860-839

Price Per Pack

1+ 12+ 24+

Dispenser Bottles



Air Powered 200ml (capacity)
Trigger Spray 600ml

Air Powered

- Fill with bulk liquid, pump up by hand and spray
- Achieve "aerosol" results without the use of propellants
- Not suitable for use with aggressive or chlorinated solvents

Trigger Spray

- Simple to use
- Graduation marks on bottle
- Adjustable spray
- Suitable for applying water based and non-aggressive solvents

CHM170

	Mfrs. List No.	Order Code	1+	6+	12+	48+
Air Powered	APB000	891-277				
Trigger Spray	TSB000	891-289				

Syringe



- White plastic syringe
- Capable of holding up to 5ml of fluid
- Integral moulded dispensing nozzle with 1mm diameter hole
- Snap-on cover prevents fluid leakage when not in use
- Ideally suited for field service as on oil dispenser

CHM35

Order Code	1+	10+	Price Each	100+	500+	1000+
.146-312						

Re-Usable Syringes



- A comprehensive range of empty syringes
- Fill with grease, pastes, pre-mixed two-part materials etc to give accurate application
- 4 sizes to cover the majority of requirements

CHM330

Pack Quantity=10

	Order Code	1+	5+	Price Per Pack	10+	20+	50+
2ml Syringe	130-497						
5ml Syringe	130-503						
10ml Syringe	130-515						
20ml Syringe	130-527						

Plastic Glove – PGS



- Pre-powdered white vinyl glove
- Single size
- Reversible, fits either hand
- Protects hands against cleaning and degreasing solvents, ferric chloride and other chemicals
- Supplied in packs of 10

CHM016

Order Multiple=10

Mfrs. List No.	Order Code	1+	Price Per Pack	10+	50+	100+
PGS100	317-615.					

Silica Gel Desiccant



- Non-indicating silica gel conforming to **BS2540:1991**
- Inert to most chemicals
- Prevents corrosion by absorbing high levels of moisture
- Avoid contact with bulk aqueous based fluids
- Suitable for use in any application where moisture attack is possible
- Use to protect hygroscopic powders, delicate electronic and communication equipment, metal surfaces and general items where moisture induced mould growth or corrosion is possible

CHM167

Order Multiple=10

Size	Weight	Mfrs. List No.	Order Code	10+	50+	100+	200+
50 100	10g	SGL010	.890-698				
85 130	50g	SGL050	.890-704				
85 165	100g	SGL100	.890-716				

Cleaning Pads, Wipes and Sprays

Wipes



Chempad® Pre-saturated Wipe

- General purpose, pre-saturated, lint-free cleaning pad
- Solvent evaporates leaving no residue
- Safe for most plastics and rubber
- Removes ink, soils and other residues
- Ideal for cleaning computers, office equipment and electronic components

Optic Prep®

- Mild nonabrasive solvent
- Quickly removes dust, oils and contaminants
- Evaporates quickly, leaving no residue
- Compatible with most plastics, glass and metals

Controlwipes® Dry Wipe

- Solvent resistant, high absorbency, tear resistant wipe
- Polyester cellulose blend
- Packed in Class 100 cleanroom environment
- Resistant to most solvents, alcohols and dilute acids
- Ideal for applications requiring excellent contamination control

Opticwipes® Dry Wipe

- Soft laboratory-grade cellulose high absorbency paper
- Non-contaminating and lint-free
- High wet strength
- Solvent resistant
- For applications involving optical surfaces, lab equipment lenses and other precision instrumentation
- Ideal for applications requiring excellent contamination control

CHM192

50 Per Box	Mfrs. List No.	Order Code	1+	4+	12+	36+
Chempad®	CP400	860-591				
Optic Prep®	CP410	860-580				
150 Per Pack			1+	6+	12+	36+
Controlwipes®	C910	860-610				
500 Per Pack						
Opticwipes®	C920	860-621				

Repair and Maintenance



HDL – Handclens

- Ideal for use where water is not available
- Foaming hand cleanser that does not require rinsing
- Apply a small amount to hand and rub hands together to clean
- Foam turns to easily removed crumb
- Contains lanolin for moisturising and pleasantly perfumed

AFC – Anti-Static Foaming Cleaner

- Non-flammable
- Highly efficient hard surface cleaner
- Safe on plastics
- 100% Ozone Friendly
- Shake well before use

ASA – Anti-Static Spray

- Non-flammable
- Cleans and prevents static build-up
- Long lasting anti-static properties
- Totally hazard free
- 100% Ozone Friendly

EWI – Electrowipes

- IPA impregnated wipes for all cleaning applications
- Electronics grade IPA saturated on to lint-free cloth
- Conveniently sachet packed

Warning: Flammable contents, use in a well ventilated area.

- Please check with Sales Office for availability

BLR/BLV – BlocLube - tamper evident seal

- One part
- Air curing
- Red or green
- Tack-free after 10 minutes
- Adjustable for 24 hours – then becomes brittle

Warning: Flammable contents, do not use on live equipment or near any source of ignition, use in a well ventilated area.

- Please check with Sales Office for availability

CHM148

	Mfrs. List No.	Order Code	1+	12+	36+	144+
150ml Aerosol	HDL150	891-241				
200ml Aerosol	AFC200D	626-260				
400ml Aerosol	AFC400D	626-272				
250ml Bottle	ASA250ML	317-536				
15ml (Red)	BLR15BE	521-747				
15ml (Green)	BLV15BE	521-759				
100 Per Box	Mfrs. List No.	Order Code	1+	10+	20+	
Wipes	EWI100	725-675				

Carterclene



- Heavy duty anti-static foaming cleaner
- Removes ground in dirt and grime
- Gives long lasting anti-static properties on glass, plastic and other synthetic materials
- Minimise contact time on metals as CTC has a relatively high pH
- Shake well before use, apply and wipe with ECW025 or SWI100

CHM331

	Mfrs. List No.	Order Code	1+	12+	36+	72+	144+
400ml Aerosol	CTC400H	130-473					

Continued

Cleaning Pads, Wipes and Sprays — continued

Engineers' Cleaning Wipes



- Economical and manageable size cloth which can be re-used
- Packed in a self-seal gripper bag to protect against contamination
- Extremely absorbent
- High quality material with exceptional tear and wet strength
- Lint free

CHM217

25 Per Pack		Price Per Pack			
Mfrs. List No.	Order Code	1+	10+	20+	50+
ECW025	634-931				

Contact Maintenance

Contact Treatment Fluids



CHM019

EOP – Edge Connector Lubricant

- Ultra high performance lubricant in a handy felt tip pen
- Use for edge connectors and all applications using noble metals
- Excellent electrical, high temperature and mechanical properties

EML – Contact Cleaner Lubricant

- Contact cleaner lubricant for switch and contact applications
- Contains contact oil 2X in a high purity blend of solvents
- Supplied in aerosol or pen
- Harmless to most plastics and rubbers

Warning: Do not use aerosol on live circuits or near any source of ignition, use in a well ventilated area.

- Please check with Sales Office for availability

SFA – Contact Treatment Fluid No. 1

- Contact Fluid No.1 in a pure solvent, packed in snorkel bottle
- Use for cleaning and lubricating switches and contacts
- Suitable for use in aggressive environments
- May affect some plastics – test before use
- Non-flammable

Note: Use in a well ventilated area.

- Please check with Sales Office for availability

CHM019

		Price Each			
Mfrs. List No.	Order Code	1+	12+	36+	144+
5cc Pen	EML05P	317-639			
200ml Aerosol	EML200F	279-481			
200ml Aerosol	SOB200D	726-813			
55ml Bottle	SFA55B	317-688			

Non-flammable Contact Cleaner



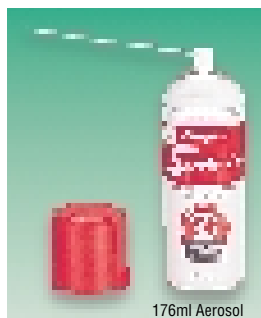
- Non-flammable contact cleaner
- Removes oxides and dust from all contact surfaces
- Ultra fast evaporating, hence should be applied as close to the item to be cleaned as possible
- Safe to use on live equipment
- Suitable for use where fire prevention is paramount e.g. mines, submarines etc.

CHM319

		Price Each				
Mfrs. List No.	Order Code	1+	12+	36+	72+	144+
200ml Aerosol	CCL200	130-436				

Switch Cleaning Lubricant – Super Servisol 10

SERVISOL



176ml Aerosol

- Solution to remove contamination of oils and grease and halt the corrosive effects of arcing and heating
- Leaves residual, relatively conductive oil film which reduces resistance
- Supplied with nozzle extension tube enabling easier application in confined spaces

CONTAINS: Butane

Note: May affect some plastics.

Warning: Flammable propellant, do not use on live circuits or near any source of ignition, use in a well ventilated area.

- Please check with Sales Office for availability

CHM17

		Price Each			
Order Code	1+	12+	36+	144+	
278-786					

Contact Treatment



CHM17

CCS – Contact Cleaning Strips

- 20 strip pack
- Mildly abrasive card strips impregnated with high performance contact oil
- Use on points, contacts and relays

SGB – Contact Treatment Grease 2GX

- High quality, non-melting contact grease 2GX
- Reduces arcing and contact wear. Reduces millivolt drop
- Specified world-wide for automotive and domestic switching applications
- Available in aerosol (flammable) and syringe packaging

Warning: 279-493 has flammable contents, do not use on live circuits or near any source of ignition, use in a well ventilated area.

- Please check with Sales Office for availability

CG53A – Contact Treatment Grease 53A

- Luer Lock syringe dispenser
- New generation contact grease with excellent electrical properties
- Highly plastics compatible
- Good high and low temperature performance
- Offers low and stable contact resistance

CHM20

Pack of 20	Mfrs. List No.		Price Per Pack			
			1+	10+	30+	100+
Cleaning strips	CCS020	317-690				
			Price Each			
			1+	12+	36+	144+
200ml Aerosol	SGB200D	279-493				
			1+	10+	30+	100+
20ml Syringe	SGB20S	317-652				
35ml Syringe	SGB35SL	317-664				
			1+	10+	20+	
35ml Syringe	CG53A	725-602				

Major International Brands

All the leading brand names from over 1,000 major international manufacturers.

**Ferric Chloride (FCC)**

- Sealed packet of ferric chloride hexahydrate for etching copper clad boards
- Dissolve the packet (250g) in warm de-mineralised water
- Makes up to 500ml
- Solution may be heated to lengthen life

Photosist Developer (PDN)

- An alkaline, aqueous developer for positive photoresists particularly PRP200
- Dilute 1 to 4 with de-mineralised water and use at above 20°C

Photoresist (PRP)

- Fast drying positive photoresist aerosol
- Use for one to one reproduction of circuits etc., on metal from transparent positive masters
- Intended for PCB prototyping but may be used for areas of technical or artistic reproduction

CHM322

	Size	Order Code	1+	5+	10+	20+	50+
Ferric Chloride	250g	130-539					
Developer	250ml	130-540					
Photoresist	200ml	130-552					

Conformal Coating Removal Pen**Conformal Coating Removal Pen**

- Removes most types of coatings in seconds
- Spot clean tight tolerance areas on circuit boards
- Marker dispenser provides controlled and exact application
- Evaporates quickly
- Provides low surface tension for superior wetting
- Conveniently sized repair/prototype dispenser
- Multilingual instructions and regulatory information



CHM326

Mfrs. List No.	Size	Order Code	1+	6+	12+	24+	72+
CW3500	9g	130-667					

Flux Removal/Dispensing**Dispensing Pens**

Chisel tip marker provides exact delivery of flux to surface
Easily removes with appropriate Flux Remover Pen or Flux-Off flux remover

No clean Flux Dispensing Pen

- Applies a patented non-corrosive, halide free, organic no-clean flux
- Flux meets Belcore TR-NWT-000078 and IPC SF-818 for Surface Insulation Resistance

Rosin Flux Dispensing Pen

- Applies a non-corrosive Type R flux
- Flux meets MIL-14256 E+F Type R and RMA

Remover Pen

Completely removes flux in seconds
Spot cleans tight tolerance areas on circuit boards
Marker dispenser provides controlled and exact application
Dries fast

CHM329

Description	Mfrs. List No.	Size/ Qty	Order Code	1+	6+	12+	24+	72+
Dispensing Pens								
No clean Flux	CW8100	9g	130-692					
Rosin Flux	CW8200	9g	130-709					
Remover Pen								
No Clean Flux	CW9100	9g	128-727					

Lubricants**Speciality Lubricants****HTG – High Temperature Grease**

- Temperature range -20°C to +200°C
- Does not harden at high temperature
- Low evaporation weight loss
- Fortified with anti-wear and anti-oxidant additives
- Water resistant

MPG – Multipurpose Grease

- Wide temperature range
- Good lubricating and thermal properties
- Safe on most thermoplastics
- Non-melting

SPG – Special Plastics Grease

- Superb plastic compatibility
- Excellent mechanical lubricant
- Will not adversely affect electrical performance
- Use for plastic gears, cogs, slides etc.

EPE – Permagard 40

- De-watering fluid
- Loosens seized metal parts
- Protects against rust and corrosion
- 100% Ozone Friendly

Warning: Flammable contents, do not use on live equipment or near any source of ignition, use in a well ventilated area.

- Please check with Sales Office for availability

MPO – Multipurpose Oil

- Light, general purpose oil for all mechanical lubrication applications
- Reduces wear and friction
- Prevents rust and corrosion
- Excellent lubrication characteristics
- Tenacious film

CHM30X

Mfrs. List No.	Order Code	1+	10+	20+	50+
50ml Tube HTG50T	891-290				
50ml Tube MPG50T	317-846				
35ml Syringe SPG35SL	725-626				
		1+	12+	36+	144+
200ml Aerosol EPE200H	298-244				
400ml Aerosol EPE400H	298-256				
		1+	5+	20+	100+
250ml Tin MPO250ML	317-834				

Silicone Oil – OSL400

- High quality silicone spray
- Multi-purpose lubricant with good adhesion
- Excellent water repellency
- Good electrical insulating compound and sealant
- 100% Ozone Friendly

Warning: Product contains flammable solvent, do not use on live equipment or near any source of ignition, use in a well ventilated area.

- Please check with Sales Office for availability

CHM348

Mfrs. List No.	Order Code	1+	6+	12+
400ml Aerosol OSL400	302-6875			

Continued

Lubricants — continued

Clear Mechanical Oil



CMO – Clear Mechanical Oil

- Clear mechanical oil for many general lubricating applications
- A blend of high purity mineral oils containing Molybdenum Disulphide
- Penetrates well giving water resistance and a wide operating temperature
- Flammable

ULL – High Performance Lubricant

- Ultra high performance dry lubricant
- Good thermal and electrical resistance
- Excellent low and high temperature properties
- Use for gold connectors, as a silicone inhibit and on printers and copiers

Warning: Flammable contents, do not use on live circuits or near any source of ignition, use in well ventilated area.

- Please check with Sales Office for availability

CHM88X

	Mfrs. List No.	Order Code	1+	12+	36+	144+
200ml Aerosol	CMO200D	298-232				
200ml Aerosol	ULL200D	725-547				

Multi-Purpose – 'Superlube'®
Synthetic Lubricant with 'Teflon'®

LOCTITE



- Synthetic formulation – provides predictable viscosity and reliable film strength at high temperatures
- Contains anti oxidants and rust inhibitors to protect against moisture and corrosion
- Odourless, clean and non staining
- Excellent dielectric properties, prevent tracking
- Excellent thermal and oxidation stability

The oil is available in either a 7ml precision dispenser or 357ml Aerosol. Grease is supplied in 85g plastic tube.

Operating temperature -23°C to +176°C (260°C short term)
-54°C to +176°C (Grease) (260°C short term)

Oil	Mfrs. List No.	Order Code	1+	12+	36+	144+
7ml dispenser	2105021	537-147				
375ml Aerosol	2105001	537-160				
Grease						
85g Tube	2105011	537-159				
400g Tube	2105012	307-2472				

'Kilopoise'



- Range of lubricants with very high extreme viscosity
- Acts in manner which is opposite of standard lubricants
- Increases difficulty of movement between surfaces

ROCOL

Designed for assemblies where a fine adjustment or slow motion is produced by hand, where free motion is required to be dampened, and where sealing is required, but not for moving machinery in the ordinary sense.

'G' Grades

- Soap thickened
- Operates at high operating temperatures
- Used in view of wider clearance involved

Grade
Standard
'G'
'S'

Melting Point

Fluid at room temperature
95°C
205°C

'S' Grade

- Available in heavy grade only
- Colloidal silica thickened
- Higher operating temperature than 'G' grade
- Retains consistency when worked

CHM34

		Order Code	1+	12+	36+
Light Grade					
0001G	50g Tube	101-671			
Heavy Grade					
0868	50g Tube	101-677			
0868G	50g Tube	101-679			
0868S	50g Jar	101-720			

Conductive Greases



Circuitworks

7200 Carbon conductive grease combines electrically conductive carbon graphite with advance silicone lubricants. It features excellent high temperature properties making it useful in applications where dripping or running at temperature may cause a problem

7100 Silver conductive grease combines pure silver with advanced silicone lubricant, and gives both electrical and thermal conductivity. Ideal in low power electronic or high power electrical applications.

	7100	7200
Material	Silicone Grease	Silicone Grease
Filter	Silver	Carbon
Temperature range	-57°C to 252°C	-57°C to 252°C
Electrical conductivity	<0.01Ωcm	<30.0Ω
Dropping point	255°C	343°C

CHM164X

	Mfrs. List No.	Order Code	1+	6+	12+	24+
Size						
50ml	CW7200BLK	860-633				
50ml	CW7100BLK	860-645				

Moisture Repelling Lubricants

Penetrating – WD-40



WD-40

- General purpose light lubricant/cleaner
- Repels moisture
- Good penetrating properties
- Silicone free making it suitable for use on electrical equipment
- Helps loosen corroded metal nuts, bolts, linkages, hinges etc
- High surface attraction to metal
- Capable of lifting and removing old grease and grime
- Leaves metal coated with a protective film to prevent rust and corrosion
- May effect some plastics
- Aerosol supplied with extension tube to reach normally inaccessible areas
- Supplied as 200ml and 400ml aerosols and 5 litre bulk pack with spray applicator
- 108-432 and 726-850 contain Co²

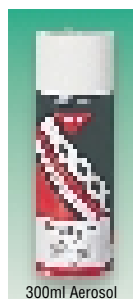
Warning: Flammable contents and propellant do not use on live equipment or near any source of ignition, use in a well ventilated area.

- Please check with Sales Office for availability

CHM90X

	Order Code	1+	12+	36+	144+
200ml	726-850				
400ml	108-432				
5 Litre + spray	726-862				

Penetrating Oil



300ml Aerosol

- Penetrates to give quick and effective release of corroded threaded fasteners or similar seized components
- Spray leaves protective film giving short term corrosion protection
- Supplied with extension tube

CONTAINS: Molybdenum disulphide and CO₂

Operating temperature -20°C to +70°C

Note: Use in a well ventilated area.

CHM113X

Mfrs. List No.	Order Code	1+	12+	36+	144+
14025	.450-996‡				

NC123 Extra



400ml Aerosol

NATIONAL CHEMSEARCH

- Displaces moisture
- Inhibits corrosion and rust
- Lubricates and cleans
- Prevents electrical failure caused by moisture
- Ideal for use on electrical and electronic equipment

CONTAINS: Butane and Propane

Note: Will not affect electrical characteristics, will not harm metals, most laquers and enamels, ceramics or plastics

Warning: Flammable contents and propellant, do not use on live equipment or near any source of ignition, use in a well ventilated area.

● Please check with Sales Office for availability

CHM37

Order Code	1+	12+	36+	144+
451-253				

Lubricants



DFL – Dry Film Lubricant

- High purity PTFE based lubricant
- Chemically inert film which will not migrate or attract contamination
- Water repellent with a low coefficient of friction
- Use where silicones or mineral oils are unsuitable
- May also be used as a mould release for cold moulds
- 100% Ozone Friendly

SCO – Silicone Grease Compound

- High insulating silicone compound with good water resistance
- Chemically inert, non toxic and odourless
- Excellent resistance to tracking
- Meets MIL-1-8660B and DEF STAN 59.10/2
- 100% Ozone Friendly

Warning: Both items contain flammable contents, do not use on live equipment or near any source of ignition, use in a well ventilated area.

● Please check with Sales Office for availability

Products contain: CO₂

Operating temperatures -200°C to +200°C

CHM38X

Mfrs. List No.	Order Code	1+	12+	36+	144+
200ml Aerosol DFL200D	.298-268				
200ml Aerosol SCO200D	.298-270				

Silicone Compound – DC4

Replaces MS4



100g Tube

- Smooth silicone grease like material
- Maintains relatively constant consistency over operating temperature range
- Excellent dielectric properties
- Highly water repellent
- Used as filling or coating to exclude moisture or prevent electronic leakage under damp conditions in electronic equipment
- Can be used to lubricate passage of wiring

Dielectric strength 16kV/mm Operating temperature -50°C to +200°C

Note: Not suitable for medical applications

CHM40X

Order Code	1+	10+	50+	100+	200+
.537-019					

Coatings

Coatings and Varnishes



CPL – Clear Protective Lacquer

- 200ml aerosol
- General purpose coating
- Solvent removable
- High gloss
- Good humidity resistance
- Can be soldered through safely
- 100% Ozone Friendly

SRC – Silicone Removable Coating

- Solvent removable, silicone conformal coating
- May be safely soldered through
- Good adhesion
- Good humid ageing properties
- 100% Ozone Friendly
- UV trace for easy inspection

TRV – Tropicalised Varnish

- An air drying, acrylic based varnish incorporating a UV trace for inspection purposes
- Use for protecting PCBs and assemblies
- Touch dry in approximately 10 minutes
- Incorporates a fungicide to prevent attack in high humidity atmospheres
- Wide operating temperature
- Excellent electrical properties

MR8008 – Insulating Varnish

- Solvent based, air drying polyurethane, one-part varnish
- Dipping grade for the insulation and protection of PCBs, transformers and wound components
- Touch dry in approximately 60 minutes
- Wide operating temperature
- Contains UV trace for inspection

Warning: All the above have flammable contents, do not use on live equipment or near any source of ignition, use in a well ventilated area.

● Please check with Sales Office for availability

CHM041

Mfrs. List No.	Order Code	1+	12+	36+	72+
200ml Aerosol CPL200H	.521-462				
400ml Aerosol SRC400	.891-319				
500ml Tin TRV500ML	.958-360				
250ml Tin MR8008	.958-372				

Coatings — continued

Conformal Coatings


DCA/DCR – SCC3 Conformal Coating
Transparent (DCA) or Red (DCR)

- UL approved coating
- Very high chemical and solvent resistance
- Not solvent removable
- UV trace for inspection (DCA only)
- Heat cure for maximum protection
- Can be safely soldered through
- Operating temperature range -70°C to +200°C
- 100% Ozone Friendly

Warning: Flammable contents and propellant, do not use on live equipment or near any source of ignition, use in a well ventilated area.

- Please check with Sales Office for availability

TFCF – Fluorocoat – Thin Film Coating

- Thin film coating offering excellent moisture resistance
- Suitable for use in telecommunications and passenger compartment applications
- Applies a very thin film which breaks when connectors etc. are inserted
- Does not require labour intensive masking of sockets and other components
- Packed in handy 250ml pump spray for use in maintenance and repair
- UV trace for easy inspection

HPA – High Performance Acrylic Conformal Coating

- Conforms to MIL-1-46058C
- UV trace for inspection
- Solvent removable
- Safely soldered through
- Operating temperature range -55°C to +130°C
- 100% Ozone Friendly

Warning: Flammable contents and propellant, do not use on live equipment or near any source of ignition, use in a well ventilated area.

- Please check with Sales Office for availability

CHM174

	Mfrs. List No.	Order Code	Price Each			
			1+	12+	36+	144+
200ml Aerosol	DCA200H	298-293				
1 Litre tin	DCA01L	725-705				
200ml Aerosol	DCR200H	298-300				
200ml Aerosol	HPA200H	298-281				
1 Litre tin	HPA01L	725-699				
			1+	12+	36+	72+
250ml Pump spray	TFCF250	891-320				

Re-Work



Acrylic Protective Lacquer (APL)

- Conveniently packaged lacquer for repair and rework
- Salt spray resistant
- Good electrical properties
- Clear glossy finish
- Good adhesion
- UV trace for easy inspection
- Available in either aerosol or container form

Silicone Removable Coating (SRC)

- Conveniently packaged lacquer for repair and rework
- Solvent removable, silicone conformal coating
- UV trace for easy inspection
- May be safely soldered through
- Good adhesion
- Good humid ageing properties

CHM324

	Mfrs. List No.	Order Code	Price Each			
			1+	12+	36+	72+
400ml Aerosol	APL400H	302-6838				
15ml Container	APL15ML	130-450				
15ml Container	SRC15ML	130-461				

Conformal Coatings



- Konform® conformal coatings are used in spray, dip tank and brush applications
- Protect PCB Components and flex circuitry from damage
- Most Konform® conformal coatings contain a UV indicator for improved QA
- Dielectric strengths of 1100 volts/mil or more
- Tough, clear transparent coating will not fragment, chip or crack
- No mixing required
- All Konform® products are plastic safe and upper ozone safe CFC/HCFC Free

Konform® SR

- Engineered for applications where flexibility and high temperature resistance are required
- Silicone coating stable from -64°C to +199°C
- High dielectric strength of 1100 volts/mil
- Easily removed with Electro-Wash Two Step or Conformal coating remover pen
- UL recognised, Mil-46058C

Konform® AR

- Designed to provide effective insulation against electrical shorts and harsh environments
- Acrylic coating stable from -59°C to +137°C
- High dielectric strength of 1200 volts/mil
- Provides excellent acid resistance
- UL recognised, Mil-46058C

Konform® UR

- Ideal for applications that require good abrasion and solvent resistance
- Urethane coating stable from -45°C to +110°C
- High dielectric strength of 1200 volts/mil
- UL recognised, Mil-46058C

Konform® UV

- UV curable in 30 seconds
- Conformal coating stable from -54°C to +163°C
- Meets MIL-1-46058C

Product Selection Guide

Product	Temperature Resistance	Abrasion Resistant	Organic Solvent Resistant	Acid Resistant	Flexibility	Solderability	Repairability	Humidity
Konform® SR	★★★★			✓	★★★★	★★★★	★★★★	✓
Konform® AR	★★★	✓		✓	★	★★★	★★★★	✓
Konform® UR	★★	✓	✓		★★	★★	★★	✓
Konform® UV	★★	✓	✓	✓	★★	★★	★★	✓

Warning: All have flammable contents, do not use on live circuits or near any source of ignition, and use in a well ventilated area.

- Please check with Sales Office for availability

CHM189

Description	Mfrs. List No.	Pack Size	Order Code	Price Each		
				1+	6+	12+
Konform® SR	CTSR-12E	400ml Aerosol	304-4270			
Konform® SR	CTSR1E	5Ltr Container	305-8670			
Konform® AR	CTAR-12E	400ml Aerosol	304-4294			
Konform® AR	CTAR1E	5Ltr Container	305-8682			
Konform® UV	CTUV32	1 Litre Container	304-4336			
Konform® UV	CTUV1	5Ltr Container	304-4348			

Silicone Conformal Coating



- One part coating
- Low viscosity dispersion in ozone-safe, VOC exempt solvent
- Easy application, spray, brush, dip or flow coating
- Room temperature cure
- Good adhesion
- Stable and flexible from -50°C to +200°C
- Clear, contains a dye which is fluorescent under UV light
- Excellent dielectric properties
- Meets MIL-1-46058C
- Flammable liquid

CHM337

	Mfrs. List No.	Order Code	Price Each	
			1+	6+
0.5kg Bottle	1-2577 Low VOC	155-457		

Shielding

**NSC – Nickel Screening Compound**

- 100% Ozone Friendly
- Excellent surface resistivity
- Excellent adhesion
- Fast drying
- Excellent attenuation levels

SCP – Silver Conductive Paint

- Highly conductive silver loaded resin
- Fast drying
- Ideal for track repair
- Ideal for pinpoint shielding

Warning: Both of the above products contain flammable contents, do not use on live equipment or near any source of ignition, use in a well ventilated area.

● Please check with Sales Office for availability

CHM44X

Mfrs. List No.	Order Code	1+	6+	12+	36+	144+
400ml Aerosol	NSC400H	.521-450				
3g Bottle	SCP03B	725-614				

Coatings

**Conductive Pen**

Pen dispenser for drawing highly conductive silver traces, jumpers and shielding with precision and control

- Quickly creates conductive silver traces on most surfaces
- Valved pen tip for easy application
- Can be soldered at low temperatures
- Dries in minutes at room temperature
- Choice of Micro Tip for fine lines or Standard Tip for wider lines

Flex Conductive Pens

Micro-Tip pen for drawing conductive traces on flexible and ITO surfaces

- Quickly creates flexible conductive silver traces on Mylar® and flex circuitry

- Micro tip for precise applications
- Dries in minutes at room temperature
- highly adherent polymer system

Overcoat Pen

Pen dispenser for precise application of a tough protective acrylic conformal coating

- Protects conductive pen traces
- Repairs permanent solder mask
- Protects against shorting, arcing, abrasion and moisture
- Dries in minutes at room temperature
- Choice of clear or green coating

Warning: Both of the above contain flammable contents, do not use near any source of ignition, use in a well ventilated area.

● Please check with Sales Office for availability

CHM162

Description	Size	Order Code	1+	5+	10+	20+
Conductive PEN - STAN 1.4	8.5g	.604-010				
Conductive Pen - Micro 0.7	8.5g	.604-021				
Flex Conductive Pen	8.5g	.130-655				
Overcoat Pen - Clear	4.9g	.604-033				
Overcoat Pen - Green	4.9g	.604-045				

Tamper-proof Coating

Varnistop Red 7400



- Solvent based dark red marking ink for use on electronic equipment
- Excellent adhesion to metal and plastic fasteners
- Dry to touch in 5 minutes
- Used for tamper-proofing and warranty seals
- Ideal for securing trim pot settings
- Enables a visual inspection of adjustment

LOCTITE

CHM344

Order Code	1+	10+	50+	100+
307-2034				

Thinners

Conformal Coating Thinners

**Non-Acrylic Conformal Coating Thinners (DCT)**

- Use to dilute coatings for use in dip and spray applications
- Suitable for use with all non-acrylic based conformal coatings
- High purity solvent blend

Universal Acrylic Thinners (UAT)

- Suitable for use with all acrylic based conformal coatings
- Use to dilute coatings for use in dip and spray applications
- High purity solvent blend

Warning: Flammable contents, do not use on live equipment or near any source of ignition, use in a well ventilated area

● Please check with Sales Office for availability

CHM350

Type	Size	Order Code	1+	5+	10+
DCT	1 litre	305-1985			
DCT	5 litre	305-1997			
UAT	5 litre	305-2011			

Masking Agent

Chemask®

Chemtronics®



- Chemask® solder masking agents protect PC boards, plated through-holes, contacts, pins, posts and terminals during wave soldering
- Provide short term high temperature protection from molten solder to 268°C
- Non-flammable
- Non-contaminating leaving no residue, ionic or corrosive
- Solder masking agents available in convenient squeeze bottles
- Plastic safe, non-flammable, upper ozone safe; CFC/HCFC free

Chemask®

- Dries tack-free in 30 minutes
- Latex material is compatible with flux systems and stable with cleaning solvents

Chemask® HV

- More controlled application
- Thicker coating does not seep through thru-holes
- Latex material is compatible with flux systems and stable with cleaning solvents

Chemask® DA

- Dries tack-free in 30 minutes
- No ammonia – low odour
- Non-corrosive

Chemask® W

- Easily removed in water cleaning cycles
- UV indicator for positive quality control
- Non-corrosive; safe for sensitive gold, silver and copper contacts

Chemask® WF

- Dissolves in water cleaning cycles
- Does not clog filters
- Non-corrosive; safe for sensitive contacts

CHM339

Description	Size	Mfrs. List No.	Order Code	1+	12+	24+
Chemask®	236ml	CM8	860-529			
Chemask®	5 Ltr	CM1	305-8700			
Chemask® DA	236ml	CDA8	304-4373			
Chemask® DA	5 Ltr	CDA1	304-4385			
Chemask® HV	236ml	CHV8	304-4350			
Chemask® HV	5 Ltr	CHV1	304-4361			
Chemask® W	236ml	CW8	304-4397			
Chemask® WF	5 Ltr	CW1	304-4403			
Chemask® WF	236ml	CWF8	304-4415			
Chemask® WF	5 Ltr	CWF1	304-4427			

Heatsink Compounds

Silicone Heatsink Compound – DC340



100g tube

- Non-melting silicone compound
- Very high thermal conductivity
- Electrically non-conducting
- Will withstand long-term exposure to high temperature
- Designed for mounting of semiconductor devices to improve heat transfer

- Other applications include the filling of temperature sensing devices to improve heat transfer to sensing element

Thermal conductivity 0.42W/m.K. Operating temperature 200°C max.
Dielectric strength 21kV/mm

FOR SUITABLE APPLICATOR SYRINGE SEE ORDER CODE 146-312
PAGE 604

Note: Not suitable for medical applications

CHM46

Order Code	Price Each			
	1+	10+	50+	100+
101-685				

Thermal Management



HTCP – Non-Silicone Heat Transfer Paste PLUS

- Silicone free
- High thermal conductivity – 2.5W/mK
- Wide operating temperature range -50°C to +130°C
- Non-melting and non-hardening

HTS – Silicone Heat Transfer Paste

- High thermal conductivity – 0.9W/mK
- Luer Lock syringe for hand or automatic application
- Wide operating temperature range -50°C to +200°C
- Non-melting and non-hardening

HTC – Non-Silicone Heat Transfer Paste

- Silicone free
- 35ml Luer Lock syringe and 10ml syringe dispensers
- Excellent non-creep properties
- High thermal conductivity - 0.9W/mK

HTSP – Silicone Heat Transfer Paste PLUS

- High thermal conductivity – 3.0W/mK
- Wide operating temperature range -50°C to +200°C
- Non-melting and non-hardening

CHM154

	Mfrs. List No.	Order Code	Price Each				
			1+	12+	36+	144+	288+
10ml Syringe	HTC10S	317-950					
35ml Syringe	HTC35S	317-962					
35ml Syringe	HTS35SL	891-344					
20ml	HTCP20S	634-920					
			1+	5+	10+		
50ml Tube	HTSP50T	725-572					

Heat Transfer Compound – HTCA



- Economic and easy to use, particularly for larger applications
- Excellent non-creep characteristics
- Wide operating temperature range
- Thin, even film coating
- Low in toxicity
- 100% Ozone Friendly

Warning: Product contains flammable solvent, do not use on live equipment or near any source of ignition, use in a well ventilated area

- Please check with Sales Office for availability

CHM352

	Mfrs. List No.	Order Code	Price Each		
			1+	6+	12+
200ml Aerosol	HTCA200	302-6863			

Conductive Rubber Jointing Compound



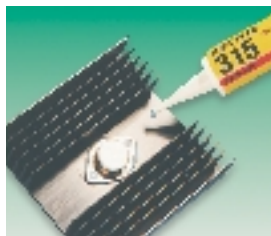
- Room temperature vulcanising thermally conductive rubber
- Thermal conductivity of 2W/mK
- Wide operating range from -50°C to 230°C (peak at 260°C)
- Use as a low strength adhesive, sealant or gasketing compound

CHM318

	Mfrs. List No.	Order Code	Price Each				
			1+	5+	10+	20+	50+
100ml Tube	TCR100	130-485					

Thermally Conductive Adhesive – 'Output'™ 315 Self Shimming

LOCTITE



- High thermal conductivity
- Self shimming, produces a consistent 0.15mm gap
- Controlled strength for serviceability
- Eliminates the need for mechanical fasteners
- Ideal for use on heatsinks, thyristors, transistors, rectifiers, regulators etc.

25ml Adhesive + 18ml Activator

Base compound	Modified Methacrylate	Tensile shear strength	7N/mm ² (1000psi)
Colour	Blue	Coefficient of thermal expansion	1.1x10 ⁻⁴ /°C
Thermal conductivity	0.815 W/m.K	Operating temperature	-55°C to +150°C
Surface resistivity	1.2 10 ¹² Ω		

Warning: Flammable contents, do not use near any source of ignition, use in a well ventilated area.

- Please check with Sales Office for availability

Note: Due to shelf life, this product should be used within three months of purchase in order to maximise its performance.

CHM133X

Two-Part Kit

	Mfrs. List No.	Order Code	Price Each				
			1+	5+	20+	50+	100+
	1705052	.537-020					

Potting & Encapsulating Materials

Primer 1200



- Air drying primer
- Supplied as dilute solution of moisture reactive materials in VM & P naphtha
- Used to improve adhesion of room temperature vulcanizing silicone rubber, after application to metal and plastic surfaces

Drying time 60 – 90 mins.

500ml

Warning: Flammable contents, do not use near any source of ignition, use in a well ventilated area.

Note: Not suitable for medical applications

- Please check with Sales Office for availability

CHM72X

	Order Code	Price Each			
		1+	10+	50+	100+
Clear, 500ml	101-683				

'Silastic' RTV Silicone Rubber – 9161

DO NOT EXHAUST



- Solvent-free easy to pour liquid
- Cures at room temperature by addition of a liquid catalyst (supplied)
- Suitable for potting and encapsulation of electronic and electrical components caulking and sealing applications
- Supplied in kit form, each containing Silastic RTV 9161 and 4% N9162 catalyst (by weight)

Cure schedule (by weight)

2% catalyst @ 25°C	24 hrs.
Pot life – 1% catalyst	35 mins.
1.5% catalyst	25 mins.
2% catalyst	12 mins.
3% catalyst	7 mins.
4% catalyst	3 mins.

Operating temperature range

-50°C to +250°C
Dielectric strength
22kV/mm
Elongation
150%
Tensile strength
2.75MPa
Tear strength
2.2kN/m

Warning: Flammable contents, do not use near any source of ignition, use in a well ventilated area.

Note: Not suitable for medical applications

CHM74X

	Order Code	1+	10+	50+	100+
Standard kit, 0.5kg	101-778				
Industrial kit, 5kg	101-779				

'Silastic' RTV Silicone Rubber – 3110

DO NOT EXHAUST



Similar to 9161 RTV described above with differing cure schedule and pot life.

Colour: White

Cure Schedule (by weight)

5% catalyst – 4 hrs.	Pot Life
10% catalyst – 2 hrs.	50 mins.
20% catalyst – 1 hr.	20 mins.
Operating temperature range	5 mins.
-65°C to +250°C	Dielectric strength
24kV/mm	180%
Elongation	Tensile strength
2.75MPa	3.5kN/m
Tear strength	

Note: Not suitable for medical applications

CHM75X

	Order Code	1+	10+	50+	100+
3110 RTV, 5kg	101-711				
Catalyst, 0.5kg	101-686				

Silastic 145 RTV

DO NOT EXHAUST



- Two part, low viscosity silicone elastomer
- Non-toxic, with no odour
- Excellent dielectric properties
- Low specific gravity
- Stable at low and high temperatures
- Protects against moisture and other environmental attacks
- No stress on encapsulated components
- Easy to cut out, repair and re-encapsulate
- Developed for encapsulating high performance electrical, electronic units and low voltage assemblies

Cure schedule

24 hrs. @ 23°C (room temperature)
Working time @ 23°C
90-120 mins.
Operating temperature range
-50°C to +180°C
Dielectric strength
24kV/mm
Viscosity @ 25°C
10,500mPa.s.
Specific gravity
1.15
Hardness, Shore A
40
Tensile strength
2.40MPa
Pack weight
5.5kg
Colour
Blue

Note: Not suitable for medical applications

CHM208

	Order Code	1+	10+	50+	100+
5.5kg	956-983				

'Sylgard' Silicone Elastomer – 170

DO NOT EXHAUST



- Two-part medium-low viscosity liquid silicone
- Cures at room temperature to a flexible flame retardant rubber
- Meets **UL94V-0** and **MIL-S-23586D**
- Black base component and buff curing agent which is an aid to thorough blending
- Designed for general potting and encapsulating applications of modules, relays, power supplies, amplifiers, transformers, ferrite cores and connectors
- Colour: Black/Grey

Mix ratio by weight

1:1
Cure schedule @ 25°C
8 hrs.
@ 70°C
15 mins.
@ 100°C
8 mins.
@ 150°C
3 mins.
@ 25°C
1 hr.

Operating temperature range

-60°C to +200°C
Dielectric strength
18kV/mm
Elongation
150%
Tensile strength
3.5MPa
Tear strength
1.7kN/m

Note: Not suitable for medical applications

CHM76X

	Order Code	1+	10+	50+	100+
Standard kit, 2kg	101-693				
Industrial kit, 10kg	101-694				

'Sylgard' Silicone Elastomer – 182 and 184

DO NOT EXHAUST



- Clear silicone material
- Low viscosity liquid
- Blends easily with curing agent and flows around intricate parts.
- Choice of cure schedules offers flexibility
- Cures as a flexible encapsulant
- Used for potting and encapsulation of electronic circuits and components, where identification of components is necessary
- **Type 182** offers longer pot life making it suitable for use in production runs.

Colour: Translucent

Mix ratio by weight

10:1
Cure schedule
4 hrs @ 65°C
15 mins @ 150°C
8 hrs
Pot life @ 25°C
-55°C to +200°C
Operating temperature range
24kV/mm
Dielectric strength
40 poise
Viscosity, mixed
100%
Elongation
6.2MPa
Tensile strength
2.7kN/m
Tear strength

Type 184

10:1
Cure schedule
24 hrs @ 25°C*
15 mins @ 150°C
2hrs
Pot life @ 25°C
-55°C to +200°C
Operating temperature range
24kV/mm
Dielectric strength
40 poise
Viscosity, mixed
100%
Elongation
6.2MPa
Tensile strength
2.7kN/m
Tear strength

*Full electrical properties achieved after seven days.

Note: Not suitable for medical applications

CHM77

1.1kg Kit	Order Code	1+	10+	50+	100+
Sylgard 182	101-695				
Sylgard 184	101-697				

Continued

Free Same Day Delivery

For orders received before 12.30pm
we provide free same day delivery.

Potting & Encapsulating Materials — continued

Epoxy Encapsulant



Araldite®

A range of two-part encapsulants complete with mixing spatula, one pair of protective gloves and instructions for use.

Low Viscosity – 147-588 (CY1301GB).

- Transparent pale coloured encapsulant
- For fast filling of small units and components requiring visual inspection.
- Encapsulant provides good thermal endurance and excellent dielectric properties.

Flame Retardant – 147-589 (CW1302GB)

- Filled, general purpose, easy to pour encapsulant.

- Fulfills class **V-0** of flammability standard **UL94**
- The filler fulfils outstanding arc and tracking resistance
- Encapsulant has high thermal conductivity to aid heat dissipation

Flexible – 147-590 (CW1312GB)

- Filled, flame retardant encapsulant
- Fulfills class **V-0** of flammability standard **UL94**
- The filler imparts outstanding arc and tracking resistance
- Low viscosity to aid mixing and pouring
- Encapsulant has high thermal conductivity to aid heat dissipation
- Ideal for large metal units and pressure sensitive devices

Mfrs. List No's.	147-588	Order Codes	147-589	147-590
Mix ratio by weight	CY1301GB	CW1302GB	CW1312GB	
Mix ratio by volume	100:30	100:11	100:9.5	
Cure cycle @ 25°C	100:37	100:20	100:17.5	
@ 60°C	2 days	2 days	2 days	
@ 100°C	2 hrs	2 hrs	4 hrs	
Usable life @ 25°C	1 hr	1 hr	1 hr	
50ml	2½ hrs	2¾ hrs	3½ hrs	
500ml	½ hr	1½ hrs	1¾ hrs	
Max. op. temp.	180°C	180°C	150°C	
Short term	120°C	120°C	110°C	
Long term	57°C to 63°C	57°C to 63°C	Flexible	
Deflection temp. (BS2782 method)	12 to 14	10 to 12	10 to 12	
Electric strength (kV/mm)	12	20	100	
Viscosity mixed (poise)	D82	D82	C84	
Hardness (Shore)	2 273 g	1 811 g	1 957 g	
U.M.	2 94 g	1 94 g	1 94 g	
Resin	630ml	550ml	600ml	
Hardener	Pale Yellow	Off White	Off White	
Volume (mixed)				
Colour				

CHM78X

Description	Order Code	1+	6+	24+	48+
Low viscosity	.147-588				
Flame retardant	.147-589				
Flexible	.147-590				

Encapsulants

Enseal Encapsulants



- Enseal Encapsulants seal and protect electronic components
- Convenience packaging for precision applications
- 4oz Squeeze bottles and 32oz Jar Kits
- Two part 1:1 ratio
- All Enseal products are Plastic Safe, Non Flammable & Upper Ozone safe CFC.HCFC Free

Enseal RTVG & RTVC

- Two part system – Easy 1:1 mix ratio
- Reversion resistant
- Non-corrosive

RTVC – Clear

- High optical transparency
- Flowable

EB – Black Epoxy

- Flame retardant – meets UL 94V-0
- Conceals components completely

Enseal SG

- Transparent green gel
- Two part system – Easy 1:1 mix ratio
- Easy to rework and repair
- Extremely soft and flexible

RTVG – Grey Opaque

- Thermally conductive
- Conceals components completely

Enseal EB & EC

- Two part system – Easy 1:1 mix ratio
- Abrasion resistant, hard coating
- High strength
- Flowable

EC – Transparent Epoxy

- Excellent insulation properties

	Enseal EB	Enseal EC	Enseal RTVC	Enseal RTVG	Enseal SG
Abrasion Resistant	Yes	Yes	No	No	No
Organic Solvent Resistant	Yes	Yes	No	No	No
Flexibility	**	**	****	****	****
Repair ability	*	*	***	***	****
Mix ratio by Weight	1 to 1	1 to 1	1 to 1	1 to 1	1 to 1
Mix ratio by Volume	1 to 1	1 to 1	1 to 1	1 to 1	1 to 1
Cure @ 25°C	6hr	24hr	12hr	24hr	30min
Cure @ 90°C	1hr	3hr	30min	1hr	6.0min
Cure @ 120°C	30min	1hr	10min	15min	5.0min
Usable Life @ 25°C	2hr	2hr	2hr	2hr	30min
Max. Operating Temp.	80°C	163°C	204°C	204°C	200°C
Viscosity Mixed	9100cps	2500cps	2000cps	2900cps	475cps
Thermal Conductivity W/mK	0.58		0.02	0.03	0.02
Color	Black	Amber	Clear colourless	Grey	Transparent Green
Volume Resistivity ASTM D 257Ω/cm	1 10 ¹⁴	1 10 ¹⁵	1 10 ¹⁵	1 10 ¹⁵	1.6 10 ¹⁵
Dielectric Constant @ 1KHz ASTM D 150		3.2	2.7	3	2.79
Dielectric Strength volts.mil ASTM D 149	420	415	500	500	570

* Poor ** Average *** Good **** Excellent

CHM351

Type	Mfrs. List No.	Pack Size	Order Code	1+	5+	10+
RTVG	EN104G	118ml	304-4439			
RTVG	EN1032G	950ml	304-4440			
RTVC	EN104C	118ml	304-4452			
EB	EN204B	118ml	304-4476			
EB	EN2032B	950ml	304-4488			
EC	EN204C	118ml	304-4490			
EC	EN2032C	950ml	304-4506			
SG	EN304	118ml	304-4518			
SG	EN3032	950ml	304-4520			

Twin Pack Encapsulating Systems



- Two part epoxy/polyurethane encapsulants
- Supplied in air tight plastic bag to correct mix ratio
- Resin and hardener are separated by a resin proof clip
- To mix, remove clip and 'mix in the bag'
- Safe and easy to use system
- Reduces risk of air contamination usually found when contentionally mixed

Best value

Epoxy

- Generally have higher temperature than polyurethane
- They are harder and stronger with better adhesion
- Superior resistance to moisture during/after cure
- Exhibit low shrinkage during cure

Polyurethane

- Softer and more flexible than epoxies causing less stress on components
- High abrasion resistance

CHM93X

Epoxy**General Purpose**

- Flame retardant epoxy resin and hardener
- Gives permanent environment protection
- Curing time can be decreased by baking between 50°C and 100°C
- Can be used in most PCB components and materials
- Contains 4.4 Diaminodiphenylmethane, a toxic material. Should be used in a well ventilated area with suitable eye/face protection and gloves

Robnor

Best value

Non DDM

- Non-toxic flame retardant encapsulating epoxy resin
- High electrical strength and thermal conductivity
- System gives good cosmetic finish

FOR SPECIFICATIONS SEE CROSS REFERENCE CHART ON PAGE 54

CHM79X

Size	Order Code	1+	10+	50+	100+
General Purpose					
50g	147-161				
100g	147-162				
250g	725-997				
500g	147-163				
1000g	148-215				
Non DDM					
50g	537-305				
100g	537-317				
250g	537-329				
500g	537-330				
1000g	537-342				

Polyurethane**Halogen Free**

- Low cost, general purpose potting and encapsulation system
- Quick cure time
- Good adhesion to a wide range of substrates
- Recommended for light electrical applications where the continuous temperature is less than 100°C

Low Viscosity

- Two part flexible encapsulant designed to give environment protection
- Does not cause component stress by shrinkage during cure
- Offers short gel time
- No exotherm, heat evolved problems
- Demonstrates good adhesion to a wide range of materials
- Ideal for flexible joints

CHM158

Size	Order Code	1+	10+	50+	100+
Halogen Free					
270g	725-961				
566g	725-973				
1131g	725-985				
Low Viscosity					
500g	725-950				

Epoxy – EER**General Purpose**

- Gloss black flame retardant encapsulant
- Low exothermic properties during cure at ambient temperatures
- Applications include potting PCB's, coils, transformers or mould casting

General Purpose - Non DDM

- Black flame retardant encapsulant
- Free of DDM or other aromatic amines
- Very low exothermic properties during cure
- Cold or hot cure system

High Temperature

- Gloss/matt black flame retardant encapsulant
- Operating temperature of up to 150°C, short term (130°C continuous)
- Low exothermic properties during cure
- Applications include potting PCB's, transformers, rectifiers, solid state relays etc.
- Gloss finish achieved when cured above 25°C

Thermally Conductive

- Gloss white flame retardant encapsulant
- Free of abrasive fillers such as alumina
- Low exothermic properties during cure
- High operating temperature in short term, 150°C (130°C continuous)
- Applications include potting PCB's, power supplies, DC-DC converters, transformers etc.
- Thermal conductivity, 1.26W/mK

FOR SPECIFICATIONS SEE CROSS REFERENCE CHART BELOW

CHM94X

Size	Order Code	1+	10+	50+	100+
General Purpose					
250g	108-779				
500g	108-780				
Non DDM					
50g	307-2149				
100g	307-2150				
250g	307-2162				
500g	307-2174				
1000g	307-2186				
High Temperature					
250g	108-781				
Thermally Conductive					
250g	108-783				

Polyurethane – EUR**General Purpose**

- Black semi-rigid flame retardant encapsulant
- Good water and impact resistance
- Cured product produces very little stress
- Applications include cable jointing or potting transformers, power supplies or ferrites

High Performance

- Black encapsulant with high toughness/tear resistance
- Excellent dielectric properties
- Low water absorption and high resistance to sea water
- Applications include high quality potting, speciality cable jointing, terminations etc

Repairable

- Blue flame retardant encapsulant developed for extreme and varying conditions and temperatures
- Low shore A40 hardness allows resin to be easily broken away for component repair or fault finding

Low Viscosity

- Black hard/tough casting resin/encapsulant
- Excellent adhesion qualities to difficult substrates such as PVC, ceramics etc.
- Good dielectric properties, water and chemical resistance
- Applications include potting intricate components, radio transmitters, PCB's etc.

Low Viscosity - Flame Retardant

- Grey, semi-rigid, low viscosity flame retardant casting resin
- Excellent electrical insulation characteristics
- Good water and impact resistance
- Ideal for potting small and delicate components such as ferrites

Self Heal

- Translucent 'gel like' encapsulant with unique ability to 'self heal' when penetrated
- Enables testing of circuits and devices through resin itself or to pass wires or connections through the resin when in situ
- High water resistance and excellent electrical properties

FOR SPECIFICATIONS SEE CROSS REFERENCE CHART BELOW

CHM92X

	Size	Order Code	1+	10+	50+	100+
General Purpose	500g	108-785				
High Performance	250g	108-786				
Repairable	250g	108-787				
Low Viscosity	250g	108-788				
Self Heal	250g	521-760				
L.V. Flame Retardant	500g	307-2198				

Continued

Total Customer Care

Our aim is to ensure you are 100% satisfied. If you ever have a query with your order, call us on (65) 788 0200

Volume Pricing

If your requirements exceed the quantities in this catalogue, please ring us on (65) 788 0200.

Encapsulants — continued

CHM211

	Robnor				Electrolube									
	Epoxy	Epoxy Non-DDM	Polyurethane Halogen Free	Polyurethane Low Visc.	Epoxy	Epoxy Non DDM	Epoxy High Temp	Epoxy Therm Cond.	Polyurethane	Low Viscosity Polyurethane - Flame Retardant	Polyurethane High Perf.	Polyurethane Repairable	Polyurethane Low Visc.	Polyurethane Self Heal
	147-161 147-162 725-997 147-163 148-215	537-305 537-317 537-329 537-340 537-342	725-961 725-973 725-985	725-950	108-779 108-780	307-2149 307-2150 307-2162 307-2174 307-2186	108-781	108-783	108-785	307-2198	108-786	108-787	108-788	521-760
Mfrs List No	PX314ZG	PX700K	EL171C	EL116F	ER2002	ER2188	ER2001	ER2074	UR5547	UR5597	UR5041	UR5044	UR5528	UR5083
Mix Ratio by Weight	8.6 : 1	9.4 : 1	8.5 : 1	7.83 : 1	8.86 : 1	10.97 : 1	17.48 : 1	17.24 : 1	5.52 : 1	6.47 : 1	3.62 : 1	13.40 : 1	2.37 : 1	2.0 : 1
Mix Ratio by Volume	5.6 : 1	5.3 : 1	6.0 : 1	6.40 : 1	5.48 : 1	5.54 : 1	8.91 : 1	7.15 : 1	4.0 : 1	5.39 : 1	3.78 : 1	11.58 : 1	2.83 : 1	2.10 : 1
Curing Time @ 25°C	24 hrs	2-7 days	Overnight @ 20°C	—	24 hrs	24 hrs	24 hrs	24 hrs	24 hrs	24 hrs	24 hrs	24hrs	24 hrs	24 hrs
@60°C	90 mins	4 hrs	1 hour @ 80°C	—	90 mins	4.5hrs	2 hrs	4 hrs	-	4 hrs	-	-	-	-
@ 100°C	20 mins	2 hrs	-	-	20 mins	20 mins	30 mins	-	-	-	-	-	-	-
Gel Time (200g mass)	-	-	20-30 mins @ Ambient	60-90 mins	—	150 mins	300 mins	300 mins	-	45 mins	-	-	-	-
Usable Life @ 25°C	1 hr	2 hrs	10 mins	20 mins	1.5-1.75 hrs	60 mins	2-2.5 hrs	1.5 hrs	20 mins	20 mins	20 mins	30 mins	20 mins	90 mins
Max. Operating Temperature	120°C	115°C	100°C	100°C	115°C	125°C	130°C	130°C	110°C	125°C	125°C	120°C	120°C	100°C
Deflection Temperature	50°C	Ambient	—	—	55°C	50°C	60°C	60°C	Flexible	-	Flexible	Flexible	25°C	Flexible
Electric Strength (kV/mm)	10	14.2	16.2	100	10	10	10	10	14	12	20	16	25	10
Viscosity Mixed	200 Poise	125 Poise	<130 Poise @ 21°C	20-25 Poise @ 23°C	140 Poise	90 Poise	80 Poise	124 Poise	40 Poise	30 Poise	25 Poise	34 Poise	20 Poise	8 Poise
Flame Retardancy	Yes to UL94V-0	Yes to UL94V-0	Yes to UL94V-0	Only when cured	Yes	Yes to UL94V-0	Yes to UL94V-0	Yes	Yes	Yes	No	Yes	No	-
Thermal Conductivity	—	1 W/m.k	0.42 W/m.k	<0.3W/m.k	0.38W/m.k	0.4W/m.k	0.4W/m.k	1.26W/m.k	0.35W/m.k	0.35W/m.k	0.20W/m.k	0.30W /m.k	0.245W /m.k	0.20W/m.k
Hardness Shore (D)	D90	D75	D50-60 After 24 hrs @ 100°C	D70 (16 hrs) D80 (200 hrs)	D75	D85	D80	D83	A85	A75	A90	A40	D57	Not measurable
Colour	Black	Black	Black	Grey	Black	Black	Black	White	Black	Grey	Black	Blue	Black	Translucent

Filler

Epoxy Metal Set Strip

LOCTITE



760mm reel

A tape consisting of an outer layer of aluminium filled epoxy resin based putty with an inner core of hardener.

- Easy and convenient to use
- Once cured, metal set can be drilled, filed or tapped
- Resistant to most solvents and lubricants
- To use cut to length, knead by hand and apply to area for repair
- Ideal for workshop or on-site maintenance

Cure schedule	30 mins.	Workable life	5 mins.
Fully hardened	72 hrs.	Max. operating temperature	120°C

CHM80

Mfrs. List No.	Order Code	1+	5+	20+	50+
1101008	148-135				

Magic Bond

Devcon



- Permanently repairs and patches metal, wood, concrete, fibreglass and ceramics
- Can be applied underwater
- Hardens in 10 mins. back in service in 1 hour and full strength in 24 hours
- Applications include, repairing tanks and drums, patching holes in pipes, stopping leaks and repairing porosity holes in castings

Temperature Resistance	49°C (wet), 121°C (dry)
Solids	100%
Dielectric Strength (ASTM D149)	300 volts/mil
Cured hardness (Shore D)	75
Adhesive tensile strength (ASTM D1002)	5N/mm ²
Compression strength (ASTM D695)	83 N/mm ²
Pot life (@ 24°C)	20 mins.
Viscosity	Putty/hand kneadable
Colour	Green/white (changes to white after mixing)

CHM214

Mfrs. List No.	Order Code	1+	5+	10+	50+
4oz stick	11600	704-0714			

General Purpose Paint

Super Enamel

General Purpose Paint

plastikote



- Finest all-purpose spray paint available
- Exclusive resin base not available to any other manufacturer
- Ideal for exterior and interior surfaces
- Non-fading and long-lasting
- Combats corrosion
- Suitable for wood and metal surfaces
- Choice of 13 colours, 2 primers and 2 acrylic

Heat resistance	150°C
Coverage	approx. 2.23m ²

pnt56

400ml aerosol Colour	Order Code	1+	6+	12+	18+	30+	48+
Gloss Black	324-1816						
Matt Black	324-1828						
Satin Black	324-1830						
Medium Grey	324-1841						
Satin White	324-1853						
Gloss White	324-1865						
New Yellow	324-1877						
Bright Red	324-1889						
Lawn Green	324-1890						
Pacific Blue	324-1907						
Royal Blue	324-1919						
White Primer	324-1920						
Red Oxide Primer	324-1932						
Grey Primer	324-1944						
Satin Clear Acrylic	324-1956						
Gloss Clear Acrylic	324-1968						
Gold	324-1970						
Silver	324-1981						

Industrial Spray Any Way

plasti-kote®



- Customised valve allows paint to flow in any position
- Delivers more paint per second, providing smoother and quicker coverage without causing runs
- Fast-drying
- Completely empties in any position
- Available in ten colours with two primers

Touch dry 15-30 mins
Fully dry 1 hour
Recoatible 5 mins
Heat Resistance 121°C
Coverage approx. 2.5-2.9m²

pnt23

400ml aerosol	Order Code	1+	6+	12+	36+	72+
Colour						
Grey Primer	711-8272					
Gloss Black	711-8296					
Flat Black	711-8302					
Gloss White	711-8314					
Dark Grey	711-8338					
Blue	711-8351					

High Visibility Fluorescent

plasti-kote®



- Bright, vivid paint offers three to four times the visibility of normal paint
- Ideal for identification and safety marking
- Can be used on wood, metal, paper and cloth

Touch dry 30 minutes
Fully dry 1 hour
Heat Resistance 120°C
Coverage approx. 2m²

pnt28

400ml aerosol	Order Code	1+	6+	12+	36+	48+
Colour						
Yellow	711-9975					
Orange	711-9987					

Rust Not

plasti-kote®



- Superior metal protection
- Resists chipping
- Penetrates surface to form permanent bond that does not chip or flake
- Quick-drying and can be re-coated in minutes
- Rust Not gives a deep, rich finish in either gloss or matt
- Available in popular RAL colours
- Consistent colour: all Rust Not colours are computer matched

Drying time 15-30 mins
Recoatible anytime
Heat resistant 150°C
Coverage approx. 2.23m²

pnt24

500ml aerosol	RAL No.	Order Code	1+	6+	12+	36+	48+
Colour							
Gloss White	-	711-8909					
Gloss Black	9005	711-8922					
Matt Black	-	711-8934					
Fire Red	3000	711-8946					
Mid Blue	5010	711-8958					
Equipment Grey	7031	711-8983					
Aluminium	-	711-8995					

Anti-Rust Primers.

plasti-kote®



Touch Dry 15-30 minutes
Fully Dry 1-2 hours
Heat Resistance 150°C
Coverage approx. 2.3 to 2.6 m

pnt25

500ml aerosol	Order Code	1+	6+	12+	36+	72+
Colour						
Red Oxide Primer	711-9409					
Grey Primer	711-9410					

Hammer Finish

plasti-kote®



- Metallic hammer finish offers a unique, decorative, hammered effect finish
- Can be used on most surfaces to achieve a metal like effect
- Fast drying
- Corrosion resistant

Coverage Approx 2.23m²
Heat resistant up to 150°C

pnt60

400 ml Aerosol	Order Code	1+	6+	12+	18+	30+
Colour						
Silver	324-1993					
Forest Green	324-2006					
Green	324-2018					
Black	324-2020					
Gold	324-2031					
Tool Box Blue	324-2043					
Red	324-2055					

Hammer Finish

Leyland



- Synthetic, hammered, metallic gloss finish
- Inhibits rust formation
- Camouflages imperfections
- Recoatable after 15 minutes
- Typically covers 5m² per litre

pnt47

500ml	Mftrs. List No.	Order Code	1+	5+	10+	50+	100+
Colour							
White	LHWHI2	714-6395					
Black	LHBLA2	714-6401					
Silver	LHSIG2	714-6413					

Continued

Fixed Prices

We aim to maintain all prices in this book for the lifetime of this issue.

Floor Paint

Single-Pack Floor Paint



- Mid-sheen, quick-drying polyurethane finish
- Single pack
- Ideal for use on stone & concrete
- Brush, roller or spray application
- Dust retardant
- Resistant to mild chemical attack
- Suitable for surfaces subjected to repeated/regular washing
- Conforms to **BS4310**

Touch Dry 5 hours
Dry Film Thickness not less than 43 microns
Coverage 60 m² typically

pnt45

5 litres	Mfrs. List No.	Order Code	1+	5+	10+	25+	50+	100+
Red	DJCAR5	714-5070						
Green	DJSHE5	714-5081						
Dark Grey	DJDAG5	714-5093						
Light Grey	DJPRG5	714-5100						
Black	DJBLA5	714-5111						
Whit	DJBRI5	714-5123						

750ml Aerosol

Colour	Order Code	1+	6+	12+	18+	30+	48+
White	721-2902						
Yellow	721-2914						
Red	721-2926						
Green	721-2938						

Layout Blue Ink



- Allows clear, sharp definitions
- Will not chip or flake
- Resists wash off
- Easy to apply & remove



pnt4

400ml	Mfrs. List No.	Order Code	1+	12+	36+	72+
57034		707-2028				

Concrete Repair Motar



- Fast setting, open to light traffic within 6 hours
- Durable hardwearing epoxy resin with excellent abrasion resistance
- Chemically resistant to most industrial chemicals
- Non-shrinking, reduces potential failure
- Permanent repair giving high compressive strength after full cure (80N/mm²)
- Multi-purpose as it can be used internally and externally, on both old and new concrete

Patchfast is an easy to apply 3-component kit which can be used with confidence by maintenance staff. Bonds and sets down to a feather edge which gives a hygienic impervious finish that is easily cleaned. Patchfast can be used in aggressive environments such as chemical process areas, steelworks, food and drink manufacturing areas, dairies, breweries, plating shops, abattoirs, engineering shops, production lines, workshop and warehousing areas.

Coverage rate: 1.14m² per 12kg @ 5mm deep

Material Properties

Specific Gravity	2.1
Pot Life	30 minutes
Initial Hardness	6 hours
Full Cure	7 days
Below 20°C these times will be increased	

Physical Properties

Compressive Strgth	80N/mm ²
Flexural Strength	30N/mm ²
Tensile Strength	12N/mm ²
Bond to Steel (Blasted to S.A 2.5)	12N/mm ²
Bond to Concrete	Concrete Fails

PNT58

	Order Code	1+	4+	8+	12+	20+	30+
12kg Tub	721-3323						

Road Paint

Marking Paint.

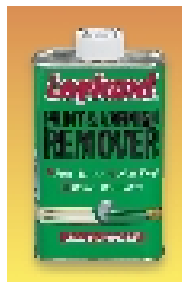


- One coat coverage
- Tight spray pattern, minimises over-spray
- Not affected or washed-away by poor weather conditions
- Non-clogging nozzle
- Formulated for heavy-traffic areas
- Suitable for concrete, grass, asphalt and gravel
- Typically applied to car parks, warehouses, loading areas and factory floors
- Touch dry in 2 to 5 minutes

PNT57

Strippers and Thinners

Paint & Varnish Remover



- Fast-acting
- Non-drip
- Water-washable
- Does not discolour or change the substrate
- Softens paints & varnishes

pnt53

	Mfrs. List No.	Order Code	1+	12+	24+	48+
500ml	S81599	720-6999				
2.5 litre	S81600	720-7001				

Corrosion Control

Heavy-Duty Rust Shield



- Effective outdoor corrosion protection
- Thin flexible film – will not crack or chip
- Dry film – does not attract dirt & dust
- Easily handled – resists finger-print corrosion

The mild dewatering action means that the parts do not need to be completely dry before application. Use for the protection of metal parts stored for extended periods out of doors, in transit or indoors under severe corrosion conditions. Ideal for the protection of machines and equipment shipped overseas. Protective film also provides residual lubrication for assembly etc.

Colour	fugitive red dye
Film Type	hard waxy film when fully cured
Film Thickness	approx. 5 to 10 microns
Curing Time	fully cured in approx. 48 hours
Protection Period	outdoors: up to 12 months indoors: typically in excess of 3 years

pnt2

300ml aerosol	Mfrs. List No.	Order Code	1+	12+	36+	72+	144+
69100		707-1784					

Zinc-Rich Primer



- Heavy-duty primer
- For metal exposed to severely corrosive elements
- Ideal for water-submerged metals
- High zinc content fuses to metal surface, inhibiting corrosion
- For non-ferrous metals
- Cold galvanising spray; suitable for protecting welds on galvanised material

Touch Dry	10 minutes
Dry	1 hour
Recoatable	2 hours
Heat resistance	82°C
Coverage	approx. 2.3 to 2.6 m ²

pnt50

375ml aerosol	Order Code	1+	6+	12+	36+	72+
Mfrs. List No. 756	711-9392					

Cold Galvanising Spray



- Zinc-rich coating: solid content is 90% zinc
- Permanent coating provides long-term corrosion protection
- Ideal for both bare metal & damaged galvanised surfaces
- Smooth coating will not crack or split
- Rapid drying

Appearance: mid-grey dry coating.

Apply ROCOL CORPLAN Cold Galvanising Spray and allow to cure at ambient temperatures. Once cured the coating is capable of withstanding very high temperatures. In tests the coating did not physically degrade and maintained its integrity and thus protection up to **450°C**, at which point the test could not go to higher temperatures. At this temperature the only alteration was a slight dis-colouring of the coating, protection was maintained.

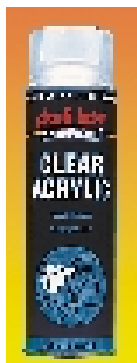
Touch Dry	10 to 15 minutes	Dry Film Thickness	typically 10 microns per coat
Fully Cured	24 hours	Coverage approx.	3.2 m ²
Heat Resistance	450°C		

pnt3

400ml aerosol	Order Code	1+	12+	36+	72+	144+
Mfrs. List No. 69515	707-1840					

Lacquer

Clear Acrylic



- Durable all-weather coating
- Gives a transparent, flexible film
- Watertight and will not yellow
- Protects and enhances other finishes e.g. fluorescent coatings
- Effective in insulating electrical systems

Electric Resistance	10 ohm/cm
Dielectric Strength	800 volt/mm
Touch Dry	20 minutes
Fully Dry	1 hour
Heat Resistance	120°C

pnt26

500ml aerosol	Order Code	1+	6+	12+	18+	30+	48+
Mfrs. List No. 795	711-9549						

Heat Protection

Hot Paint



plasti-kote

- Formulated to resist temperatures of up to 650°C
- Heat cured formula which forms a hard, long lasting finish that will not burn off, chip or flake
- Ideal for any surface exposed to very high heat

PNT61

400 ml Aerosol	Order Code	1+	6+	12+	36+	48+
Colour						
Black	324-2109					
White	324-2110					
Aluminium	324-2122					
Blue	324-2134					

Heat Shield



plasti-kote

- Available in a tough matt black finish
- Provides durable protection for surfaces subject to high temperatures
- Ideal for boilers, furnaces, exhaust pipes, chimneys and many other applications
- Will not crack, bubble, peel or fade

Touch Dry	15 to 30 minutes
Fully Dry	1 to 2 hours
Heat Resistance	425°C
Coverage	approx. 2.3 to 2.6 m ²

pnt27

500ml aerosol	Order Code	1+	6+	12+	36+	72+	144+
Mfrs. List No. 796	711-9963						

Notes