


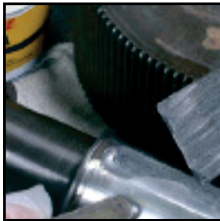


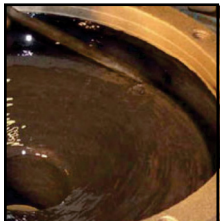
Surface Engineering Solutions

Surface Engineering Solutions repair, rebuild and protect industrial equipment and surfaces, therefore extending equipment life, improving efficiency and minimising down time.

The key advantage is the capability to create a sacrificial and renewable working surface, therefore protecting the structural integrity of the original substrate.



Typical Applications

- Cracks in Housings
- Worn Keyways in Shafts & Collars
- Worn Cylindrical Shafts
- Impellers
- Air Ducts
- Pumps
- Heat Exchangers
- Centrifuges
- Cyclones
- Pipes
- Tanks
- Fan Blades

	Steel		Aluminium	Metal before coating	
	Kneadable	High Comprehensive Strength	Multi Purpose	Rebuild Badly Worn Metal Surfaces before Coating	
	3463 Metal Magic Steel™ Stick	3478 A&B Superior Metal	3475 A&B Metal Set 1A	7226	7234
Description	2K-Epoxy	2K-Epoxy	2K-Epoxy	2K-Epoxy	2K-Epoxy
Mix Ratio By Volume/Weight	N/A	4:1/7.25:1	1:1	4:1/100:25	2.6:1/100:21
Working Life	3 min	20 min	45 min	30 min	30 min
Fixture Time	10 min	180 min	180 min	tbc	tbc
Shear Strength (GBMS)	≥ 6N/mm ²	17N/mm ²	20N/mm ²	34.5N/mm ²	-
Compressive Strength	82.7N/mm ²	125N/mm ²	70N/mm ²	103.4N/mm ²	-
Operating Temperature	-30°C to +120°C	-30°C to +120°C	-20°C to +120°C	-30°C to +120°C	-30°C to +205°C
Pack Sizes	50 g to 114 g	452g Tub Kit	500g Tub Kit	1Kg Kit	1Kg Kit
<p>Loctite 7232 high temperature, wear resistant putty is used prior to applying protective Loctite composite coatings.</p>     	<p>Sets in 10 minutes. A Steel-filled kneadable stick. (Adheres to damp surfaces and also cures under water). Chemical and corrosion resistant. Can be drilled, filed and painted. ANSI/NSF Standard 61.</p>	<p>A ferro-silicon filled 2K-Epoxy with an outstanding compression strength. Ideal for renewing surfaces subjected to compression, thrust, impact and harsh environments.</p>	<p>A non-sagging, heavily reinforced, Aluminium powder filled 2K-Epoxy. Easily mixed and moulded to form odd shapes, if required. Cures to a non-rusting, Aluminium-like finish. Ideal for repairing Aluminium parts.</p>	<p>A two-component epoxy, filled with small ceramic beads and silicon carbide for the protection of processing equipment from fine particle abrasions. This trowelable and non-sag epoxy is suitable for providing abrasion resistance on overhead and vertical surfaces.</p>	<p>A brushable two-part epoxy, I designed to protect against turbulence and abrasion under extreme heat.</p>
	<p>Typical Applications:</p> <ul style="list-style-type: none"> • Emergency sealing of leaks in pipes and tanks. • Smoothes welds. • Repairs small cracks in castings. • Fills over-sized bolt holes. 	<p>Typical Applications:</p> <ul style="list-style-type: none"> • Rebuilding of keyways and spline assemblies. • Rebuilding of worn cylindrical joints with a shaft mounted component like bearings, clamp connections, tensioning elements or gear wheels. • Rebuilding of bearing seats. 	<p>Typical Applications:</p> <ul style="list-style-type: none"> • The repair of Aluminium castings. • The repair of cracked or worn Aluminium parts. • The make of Aluminium dies. • The repair of stripped Aluminium threads. 	<p>Typical Applications:</p> <ul style="list-style-type: none"> • Elbows. • Chutes and Hoppers. • Cyclones. • Air Ducts. 	<p>Typical applications:</p> <ul style="list-style-type: none"> • For the protection exhausters from cyclic heat and corrosion. • The repair of heat exchangers and condensers. • The lining of tanks and chutes. • Repair of butterfly valves.






Problem Solving Guide



What's the Problem?	Solutions				
Nuts, Bolts, Studs & Threaded Parts <ul style="list-style-type: none"> Nuts, bolts, studs and other threaded parts coming loose Need to prevent threads corroding and seizing 	222	Recommended for Low-Strength Threadlocking of adjusting screws, countersunk head screws and set screws. Also used on low strength metals such as Aluminium or Brass that could break during disassembly. P1 NSF Reg. No.: 123002	Size of Thread Up to M36	Strength Low	Long-Term Temperature Resistance +150°C
	243	Effective on all Types of Metal Threaded Fasteners. Prevents loosening on vibrating parts such as pumps, motor mounting bolts, gearboxes or presses. Recommended for use where disassembly with hand tools is required for servicing and where parts are contaminated with oil. P1 NSF Reg. No.: 123000. Certified to ANSI/NSF Standard 61	Size of Thread Up to M36	Strength Medium	Long-Term Temperature Resistance +150°C
	2701	For Use on all Metal Fasteners (including Stainless Steels and those with protective coatings such as Zinc) where regular removal for maintenance is not required. Recommended for permanently locking studs on engine blocks and pump housings. P1 NSF Reg. No. 123006 – only Loctite® 270, WRC Approval 040303 – only Loctite® 2701	Size of Thread Up to M20	Strength High	Long-Term Temperature Resistance +150°C
Fluid Pipe Systems <ul style="list-style-type: none"> Leaks from hydraulic, air, coolant, oil or other threaded fittings Blockages caused by debris from traditional tape and hemp/paste sealants Locking and sealing valves, gauges, taps and fittings in any position without leaks 	55	Can be Safely Applied on Metal and Plastic Threaded Fittings. <u>Potable Water:</u> WRC listed for use with potable water up to 85 °C, meets BS 6920. Meets the KTW recommendation for cold and hot water. <u>Gas and Water:</u> Carries the German DVGW approval (No. DV-5142AU0166), together with DIN 30660. Tested in accordance with EN751-2 Class ARp. Certified to ANSI/NSF Standard 61	Maximum Pipe Size Tested to 4"	Temperature Resistance +130°C	Disassembly Strength Low
	542	Recommended for Fine Threaded Fittings as used in hydraulic and pneumatic installations and small fittings in general. Carries the German DVGW approval (NG-5146 AR 0855). Tested in accordance to EN 751-1. Meets BS 6956 type A for sealing gas fittings.	Maximum Pipe Size 3/4"	Temperature Resistance +150°C	Disassembly Strength Medium
	572	LOCTITE® 572 is designed for the locking and sealing of metal pipes and fittings. The product cures when confined in the absence of air between close fitting metal surfaces and prevents loosening and leakage from shock and vibration. The thixotropic nature of LOCTITE® 572 reduces the migration of liquid product after application to the substrate.	Maximum Pipe Size 3"	Temperature Resistance +150°C	Disassembly Strength Medium
	577	Recommended for all Coarse Metal Threads. Suitable for applications at low temperatures e.g. outdoor plant maintenance. Carries the German DVGW approval (NG-5146 AR 0621). Tested in accordance to EN 751-1. Meets BS 6956 type B for sealing gas fittings. P1 NSF Reg. No.: 123001	Maximum Pipe Size 3"	Temperature Resistance +150°C	Disassembly Strength Medium
	561	Convenient to Use, no Migration. Recommended for all coarse metal threads, where disassembly is required. Ideal for use in a broad range of industries including chemical processing, wastewater treatment and automotive. Certified to ANSI/NSF Standard 61	Maximum Pipe Size 3"	Temperature Resistance +150°C	Disassembly Strength Low
Leaking Flanges <ul style="list-style-type: none"> Bolted flanges leaking Fretting corrosion and/or bolt fatigue Bolts loosening as gaskets relax Stop movement between the flanges 	518	Recommended for Use on Rigid Iron, Steel and Aluminium Flanges. Apply as a continuous closed bead to one surface. P1 NSF Reg. No.: 123758	Flange Type Rigid	Temperature Resistance 150°C	Oil Resistance Excellent
	510	Sealing Rigid Flanges Recommended for applications where high temperature and chemical resistance is needed. P1 NSF Reg. No.: 123007	Flange Type Rigid	Temperature Resistance 200°C	Oil Resistance Excellent
	5910	Replacement for Cork and Paper Cut Gaskets on flanges and stamped sheet metal covers. Recommended for use where high vibration or flexing occurs. Can also be used with plastic and painted parts.	Flange Type Flexible	Temperature Resistance 200°C	Oil Resistance Excellent

ADHESIVES & SEALANTS

Problem Solving Guide

What's the Problem?	Solutions				
Bearings, Bushes, Shafts and Cylindrical Parts <ul style="list-style-type: none"> Loose bearings, bushes, shafts or cylindrical parts that have become oval Prevent reoccurrence of fretting corrosion and wear in coaxial assemblies Need to increase strength Simplify assembly process 	660	Used for Repairing Worn Coaxial Parts without remachining this enables the re-use of worn bearing seats, keys, splines, tapers, or for retaining shims (use with Activator Loctite® 7240). P1 NSF Reg. No. 123704	Strength Required High	Diametrical Clearance Up to 0.5 mm	Temperature Resistance 150 °C
	648	Recommended for High Temperature Retaining of parts with a clearance or interference fit, i.e. retaining bushes, bearings, seals, fans and liners.	Strength Required High	Diametrical Clearance Up to 0.15 mm	Temperature Resistance 175 °C
	638	Gives the Best Resistance to Dynamic, Axial and Radial Loads. Recommended for retaining shafts, gears, pulleys and similar cylindrical parts. KTW approval for cold and hot water. P1 Nsf Reg. No.: 123010, Wrc Approval 9909511	Strength Required High	Diametrical Clearance Up to 0.25 mm	Temperature Resistance 150 °C
	603	For Retaining Close Fitting Cylindrical Parts (up to 0.1 mm gap). For use on cylindrical fitting parts where thorough degreasing is not possible. Tested and approved for use on bearings. P1 NSF Reg. No.: 123003	Strength Required High	Diametrical Clearance Up to 0.1 mm	Temperature Resistance 150 °C
Flexible Joining of Parts <ul style="list-style-type: none"> Impact and vibration-resistant joints Permanently flexible bonding of different materials Joints have large gaps or are subject to high temperatures 	5399	Flexible high temperature Adhesive/Sealant Suitable for bonding and sealing glass, metal and ceramics, where temperatures can reach 350 °C, e.g. the sealing of stove flues/chimneys, industrial ovens, electro-appliances and ventilation systems.	Operating Temperature Up to 350°C	Skin Over Time 5 min.	Specially for Oven door seals, heat source sealing
Joining Small Parts <ul style="list-style-type: none"> Join different materials rapidly Bond parts temporarily during positioning or repair Re-use broken parts Need to speed up production 	406	Rapid Bonding of Rubbers (including EPDM), plastics and elastomers, when used with Loctite® 7239 Polyolefin Primer bonds "on difficult to bond" plastics.	Operating Temperature Up to 80°C	Fixture Time ¹ 10–20 sec.	Specially for Plastics
	401	General purpose for bonding most substrates such as plastics, rubber, metals, card, wood. P1 NSF Reg. No.: 123011	Operating Temperature Up to 80°C	Fixture Time ¹ 5–20 sec.	Specially for Porous Substrates
	454	General purpose gel for bonding metals, composite materials, wood, cork, foam, leather, card, paper, and unglazed ceramics. Recommended for use on vertical or overhead surfaces. P1 NSF Reg. No.: 123009	Operating Temperature Up to 80 °C	Fixture Time ¹ 5–20 sec.	Specially for Porous Substrates
	480	Black, Rubber Toughened Grade for Bonding Metal to metal and metal to rubber; especially suitable with applications where high peel strength is required and/or shock loads are present.	Operating Temperature Up to 100°C	Fixture Time ¹ 60–120 sec.	Specially for Metal/Plastics
Joining Large/Structural Parts <ul style="list-style-type: none"> Strong durable joints between different materials Replace welding riveting - with a corrosion-free, reduced stress joint 	330/7388	MULTI-BOND® 50 ml Kit is a two part no mix, fast curing, toughened adhesive with good impact resistance. Ideal for bonding dissimilar substrates, including plastics like PVC, phenolic and acrylic. Loctite® 330: P1 NSF Reg. No.: 123005	Operating Temperature Up to 100°C	Fixture Time 5 min.	Viscosity 67.5 Pa.s
	3430 A&B	Loctite® Hysol® 3430 A&B is a five-minute, 2K-Epoxy adhesive, suitable for applications requiring an optically clear bond line. Ideal for bonding glass, decorative panels and displays and general repair applications.	Operating Temperature Up to 80°C	Fixture Time 12 min	Viscosity 25 Pa.s

Problem Solving Guide

What's the Problem?	Solutions				
Lubrication <ul style="list-style-type: none"> • Need to combat wear and seizing caused by friction • Resist high temperatures and tough operating conditions 	8021	Silicone Oil This product is a general purpose, low viscosity silicone oil used for lubricating metal and non-metal surfaces. It may also be used as a release agent.	Appearance Colourless liquid	Base Silicone	Temperature Range N.A.
	8201	Five Way Spray Frees, lubricates, cleans displaces moisture, and prevents corrosion. Ideal for light lubrication of metals and freeing assemblies.	Appearance Light yellow liquid	Base Mineral oil	Temperature Range -20°C to +120°C
	8007 8008	C5-A® Copper Anti-Seize Copper based anti-seize for screws, nuts, pipes, heat exchangers, etc. Typical applications: exhaust bolts and brake caliper bolts. Loctite® 8007 aerosol/Loctite® 8008 brush top/Loctite® 8065 stick.	Colour Copper	N.L.G.I. Class 1	Temperature Range -30°C to +980°C
	8009	Heavy-Duty Anti-Seize Brush Top Metal free Anti-Seize providing a long term lubrication on all metals including stainless steel and titanium.	Colour Black	N.L.G.I. Class 1	Temperature Range -30°C to +1315°C
Corroding Components <ul style="list-style-type: none"> • Prevent corrosion after assembly or during storage 	7800	Zinc Spray Provides excellent cathodic protection on ferrous metals. Can be used as a primer prior to painting. Especially suitable for protecting welds from corrosion on galvanised parts. Loctite® 7800 Zinc spray shiny/Loctite® 7922 Zinc spray matt	Operating Temperature Up to 350°C	Skin Over Time 5 min.	Especially for Oven door seals, heat source sealing
Worn and Damaged Parts <ul style="list-style-type: none"> • Re-build, restore, repair metal parts and assemblies 	3463	Metal Magic Steel TM stick Working time is 3 minutes and sets in 10 minutes. Steel filled kneadable stick. Adheres to damp surfaces and cures under water. Chemical and corrosion resistant. Can be drilled, filed and pointed. It is ideal for emergency sealing of leaking tanks and pipes. Smoothes welds, repairs small cracks in castings and fills oversized bolt holes. ANSI/NSF Standard 61	Maximum Temperature 120°C	Working Time 3 min.	Cure Time 10 min.
Cleaning Parts and Hands <ul style="list-style-type: none"> • Cleaning parts prior to using adhesives/sealants • Have to remove cured resins, adhesives/sealants, old gaskets, and other compounds without surface damage • Cleaning electrical contacts • Cleaning hands, removing ink, paint, resin and hard-to-shift dirt – with or without water 	7855	Hand cleaner Hand cleaner made from natural extracts and free from mineral oils. Biodegradable. Contains premium skin conditioners. Works with or without water. Removes ground-in dirt, grease, grime and oil.	Description Hand cleaner		
	7039	Contact Cleaner Spray Does not affect insulating varnishes, for cleaning electrical contacts, relays, switchgear etc. without affecting insulating varnishes. Displaces moisture and forms a water repellent film.	Description Contact cleaner spray		
	7200	Gasket Remover Removes cured gasket sealants and traditional gaskets from most types of surfaces in 10 to 15 minutes with minimal scraping.	Description Gasket remover		
	7063	Cleaner & Degreaser Biodegradable, solvent-free, non-toxic and non-flammable, diluted with water. Rated USFA-C1. Removes grease, oil, cutting fluids and workshop grime.	Description Cleaner and degreaser		



Den Braven
"Worldwide Leader in Professional Sealants"



Adhesive Contacts				
Stock Code	System Code	Volume	Uom	Brand
BO0000	A0004590	50 ml	EA	Bostik
MS0005	A0010251	50 ml	EA	Poliobond
MS0010	A0010252	100 ml	EA	Poliobond
GK0000	A0007629	500 ml	EA	Genkem
GK0001	A0007630	1 L	EA	Genkem
GK0002	A0007631	5 L	EA	Genkem



A0010251



A0004590



A0007629

O-Ring Super Adhesive Sets				
Stock Code	System Code	Volume	Uom	Brand
MS0020	A0010253	20 g	EA	Glue Devil



A0010253

Glues					
Stock Code	System Code	Type	Size	Uom	Brand
PAC_SG3	A0011695	O-Ring, Industrial	3 g	EA	Super
SN0662	A0014079	Glue Gun Sticks, Clear	6 x 100 mm	EA	Stanley
MS1371	A0010531	Q-Bond, Super	Small	KIT	QL
MS1370	A0010530	Q-Bond, Super	5 ml	EA	QL
MS1330	A0010525	Super	20 g	EA	Superglue



A0014079



A0010531



A0010530

Foam Sealants					
Stock Code	System Code	Type	Volume	Uom	Brand
DB0010	A0005625	Sista	500 ml	EA	Denbraven
DB0015	A0005627	Aerosol	750 ml	EA	Denbraven



A005625

Thread Sealant Pastes				
Stock Code	System Code	Volume	Uom	Brand
MS0670	A0037935	200 g	EA	Chesterton



A0037935



A0010422



A0014463



A0010424

Sealants					
Stock Code	System Code	Description	Volume	Uom	Brand
MS0830	A0010422	Gasket, Red	90 ml	EA	Glue Devil
MS0840	A0010424	Nut Lock	50 ml	EA	Glue Devil
SX0100	A0014463	Polyurethane, Black	300 ml	EA	Sikaflex



A0010428



A0010429



A0014166



A0005620



A0011694



A0005623

Silicone Seals Range					
Stock Code	System Code	Description	Volume	Uom	Brand
MS0870	A0010428	Clear	90 ml	EA	Glue Devil
DB0000	A0005620	Clear	260 ml	EA	Denbraven
MS0875	A0010429	Clear	260 ml	EA	MTS
MS0876	A0036267	White	260 ml	EA	MTS
DB0001	A0005621	White	280 ml	EA	Denbraven
PR0040	A0011694	Clear	300 ml	EA	Pratley
DW0015	A0005697	Clear	310 ml	EA	Dowcorning
SS0005	A0014166	Clear	310 ml	EA	Soudal
SS0010	A0014167	White	310 ml	EA	Soudal
DB0005	A0005623	Gasket Red	310 ml	EA	Denbraven

Hardener Rubber Solution for SC2000				
Stock Code	System Code	Weight	Uom	Brand
MS0770	A0010408	1 Kg	EA	Rema
MS0771	A0010409	40 g	EA	Rema



A0010408

ADHESIVES & SEALANTS

Gasket Sealers				
Stock Code	System Code	Weight	Uom	Brand
QL0005	A0011837	100 g	EA	Hylomar



A0011837

Yellow Visibility Safety Tapes				
Stock Code	System Code	Size	Uom	Brand
MS1027	E0000968	6 m	EA	3M
MS1025	E0000966	50 m	EA	3M

E000966



Adhesive Tapes					
Stock Code	System Code	Type	Size	Uom	Brand
NR0305	A0036240	Double Sided	3 x 24 mm x 30 m	EA	3M
MS0968	A001051	Double Sided	18 x 1.5 mm x 33 m	EA	MTS
MS0964	A0010447	Buff	25 mm x 50 m	EA	Buffalo
MS0965	A0010448	Buff	48 mm x 50 m	EA	Buffalo
MS0966	A0010449	Anti-Corrosion	100 mm x 10 m	EA	Denso
MS0967	A0010450	Anti-Corrosion	150 mm x 10 m	EA	Denso
MS0969	A0010452	Ducting	50 mm	EA	Buffalo
MS1015	A0010466	Scotch, Fibreglass	19 mm x 20 m	EA	3M



A0036240

A0010451

A0010448

A0010447

A0010449

A0010466

Insulation Tapes					
Stock Code	System Code	Type	No.	Uom	Brand
NI0000	A0011298	Black	21	EA	Nitto
NI0001	A0011299	Blue	21	EA	Nitto
NI0005	A0011303	Green	21	EA	Nitto
NI0002	A0011300	Red	21	EA	Nitto
NI0003	A0011301	White	21	EA	Nitto
NI0004	A0011302	Yellow	21	EA	Nitto
MS0975	A0010456	Black	35	EA	3M
MS0970	A0010453	Blue	35	EA	3M
MS0980	A0010458	Green	35	EA	3M
MS0990	A0010460	Red	35	EA	3M
MS1000	A0010462	White	35	EA	3M
MS1010	A0010464	Yellow	35	EA	3M
OC0200	A0011351	Black	2	EA	Octo
OC0201	A0011352	Blue	2	EA	Octo
OC0202	A0011353	Red	2	EA	Octo
OC0203	A0011354	White	2	EA	Octo
OC0204	A0011355	Yellow	2	EA	Octo
OC0205	A0002507	Green	2	EA	Octo



A0011299



A0010456



Masking Tapes

Stock Code	System Code	Size	Uom	Brand
EP0000	A0005888	18 mm x 40 m	EA	Epsin
EP0005	A0005889	24 mm x 40 m	EA	Epsin
EP0010	A0005890	36 mm x 40 m	EA	Epsin
EP0015	A0005891	48 mm x 40 m	EA	Epsin



A0005888

Pipe Sealant Tapes

Stock Code	System Code	Size	Uom	Brand
MS1030	A0010471	12 mm x 10 m	EA	Pffe
MS1031	A0010472	12 mm x 12 m	EA	Pffe



A0010472



A0011689



A001688



A0011691



A0011686



A0011693



A0011687



A0011690

Quickset Adhesives

Stock Code	System Code	Type	Size	Uom	Brand
PR0020	A0011689	Quickset, Clear	40 ml	EA	Pratley
PR0019	A0011688	Quickset, White	40 ml	EA	Pratley
PR0022	A0011691	Quickset, Clear, Bulk	500 ml	EA	Pratley
PR0021	A0011690	Quickset, White, Bulk	500 ml	EA	Pratley
PR0010	A0011686	Quickset, Putty	125 g	EA	Pratley
PR0011	A0011687	Quickset, Steel Putty	125 g	EA	Pratley
PR0030	A0011693	Quickset, Steel	40 ml	EA	Pratley

Putties

Stock Code	System Code	Type	Size	Uom	Brand
PR0002	A0011685	Standard Setting	125 g	EA	Pratley
PR0000	A0011683	Standard Setting, White, Bulk	2 Kg	EA	Pratley
PR0001	A0011684	Standard Setting, Black, Bulk	2 Kg	EA	Pratley



A0011683



A0011685

High Performance Adhesives

Stock Code	System Code	Type	Size	Uom	Brand
PR0090	A0011712	SP001, Chemical Resistant	40 ml	EA	Pratley
PR0091	A0011713	SP001, Chemical Resistant, Bulk	500 ml	EA	Pratley



A0011713



A0011712

ADHESIVES & SEALANTS



A0005436 A0005438 A0005437 A0005421 A0005431 A0005430 A0005430 A0005431

Cleaners				
Stock Code	System Code	Type	Size	Brand
CO0090	A0005436	Battery Cleaner with Indicator	312 g	CRC
CO0110	A0005438	Brakleen	539 g	CRC
CO0100	A0005437	Brakleen, Non-Chlorinated, Low Voc	397 g	CRC
CO0010	A0005421	Co-Contact Cleaner, Non-Flammable	398 g	CRC
CO0050	A0005431	Contact Cleaner 2000	369 g	CRC
CO0040	A0005430	QD Contact Cleaner, No Flash	312 g	CRC
CO0020	A0037876	Cable Clean Degreaser	510 g	CRC
CO0080	A0005435	Isopropyl Alcohol Cleaner	340 g	CRC
CO0070	A0005434	T-Force Decreaser	510 g	CRC
CO0060	A0005432	Weld Check, Weld Cleaner	312 g	CRC

Tapes					
Stock Code	System Code	Type	Size	Uom	Brand
PR0070	A0011697	Rubber	19 mm x 20 m	EA	Pratley
PR0071	A0011698	PVC, Black	19 mm x 20 m	EA	Pratley
PR0072	A0011699	PVC, Red	19 mm x 20 m	EA	Pratley
PR0073	A0011700	PVC, Blue	19 mm x 20 m	EA	Pratley
PR0074	A0011701	PVC, White	19 mm x 20 m	EA	Pratley
PR0075	A0011702	PVC, Yellow	19 mm x 20 m	EA	Pratley
PR0076	A0011703	PVC, Green	19 mm x 20 m	EA	Pratley
PR0077	A0011704	PVC, Earth Marking	18 mm x 20 m	EA	Pratley



A0011700



A0011697



A0011704