



Setting the Standard in Composite Distribution



GRP Solutions are proud to support



Setting the Standard in Composite Distribution

Every great business should be about "great people" and in the world of delivering composite solutions this is even more self-evident.

Before we started to define what our business would deliver we defined what our business culture would be about.

Our business culture is simple, we put "great people" at the heart of everything that we do. Our team is more like a family who all share a passion and desire to work as a team to deliver "great service" and to add value to you our customer.

We are a business that looks after people. We care for the people that make GRP Solutions a great business, we thrive on building relationships with customers and suppliers and we are a business that knows that caring for people in our community is good for them, us and you, and is fun.

Whilst this brochure is full of "great products" from our world class supply chain partners, GRP Solutions is much more than a business supplying products. We are a composite solutions provider, which means having the most highly experienced team in the industry capable of understanding your needs, providing expert technical advice and through long term relationships delivering value added solutions.

As the composite market continues to develop so do our solutions. In order to add value across the entire composite sector from consumables through to advanced composites we have developed partnerships with businesses such as Total Composite Solutions (TCS) and Consumable Solutions, all of whom share a common business culture.

If you are a business that shares our culture, we would love to be of service.

Brian Harpur

Managing Director, GRP Solutions Ltd



Setting the Standard in Composite Distribution

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“ GRP Solutions is redefining distribution by investing in the best people in the industry with a desire to provide world class service. ”

1 RESIN



“ It’s amazing to see the power that
valuing people has on an organisation’s
ability to deliver for its customers. ”

1 / RESIN

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Aropol - General Purpose

DESCRIPTION	REMARKS	PRODUCT
Thixotropic pre-accelerated orthophthalic resin, good for both hand and spray layup, non-marine	Short gel time	DRL 085 TA
Thixotropic pre-accelerated orthophthalic resin, good for both hand and spray layup, non-marine	Long gel time	DRL 085 TB
Low styrene content DCPD resin, LLOYDS APPROVED	Medium gel time	S 604 TB

Aropol - General Purpose Low Styrene Emission

DESCRIPTION	REMARKS	PRODUCT
Thixotropic pre-accelerated orthophthalic resins, LLOYDS APPROVED	Short gel time	M 105 TA
White version of M 105 TA	Short gel time	M 105 TAXW
Thixotropic pre-accelerated orthophthalic resin, low exotherm, LLOYDS APPROVED	Controlled curing	M 105 TAR
Thixotropic pre-accelerated orthophthalic resin, low exotherm, LLOYDS APPROVED, WRAS APPROVED.	Short gel time	M 105 TAXR
Thixotropic pre-accelerated orthophthalic resins, LLOYDS APPROVED	Medium gel time	M 105 TB
White version of M 105 TB	Medium gel time	M 105 TBXW
Thixotropic pre-accelerated orthophthalic resin, low exotherm, LLOYDS APPROVED	Controlled curing	M 105 TBR
Thixotropic pre-accelerated orthophthalic resins, LLOYDS APPROVED	Long gel time	M 105 TC
High HDT (90°C) orthophthalic resin with 3.5% elongation at break. Enhanced mechanical properties	Short gel time	M 300 TA

Thixotropic pre-accelerated orthophthalic resin, low exotherm	Short gel time	M 118 TAX
White version of M 118 TAX	Short gel time	M 118 TAXW

Aropol - Low Styrene Resin

DESCRIPTION	REMARKS	PRODUCT
Very low styrene content (20%) resin	Medium gel time	S 60 TB

Low Voc Resins

DESCRIPTION	REMARKS	PRODUCT
Low VOC, premium marine vinylester resin, LLOYDS APPROVED	Medium gel time	AME 6000 T 35
Low VOC, low styrene content DCPD resin, LLOYDS APPROVED	Medium gel time	M 604 TB

Hetron F Fire Retardant*

DESCRIPTION	REMARKS	PRODUCT
Unfilled resin BS.476 Part 2 Class 2 Classification. LLOYDS APPROVED	Medium gel time	F 207 TPB
Filled Resin Class 1	Short gel time	Hetron F 240 TFE
Filled Resin Class 2	Short gel time	Hetron F 660 TFE
Filled & halogenated resin. M1 classification.	Short gel time	Hetron F 804 TF

*Fire retardancy ratings mentioned above are indicative values, based on material tested in third party laboratories. These values should not be construed as guaranteed results. The final part in which the resin will be used shall imperatively be tested according to relevant norms prior to full industrialisation, in compliance with laws and regulations in force.

Aropol - Translucent

DESCRIPTION	REMARKS	PRODUCT
Stabilized non-accelerated resin. Continuous lamination. UV Stabilized non-accelerated	Good and fast wetting of glass fibres and rapid curing	G 194 L UV
Stabilized pre-accelerated resin. Hand lay-up	Recommended for roof panels and domes, superstructures etc	G 200 LE UV
Low reactivity highly transparent nearly colourless casting resin, UV stabilized	Used for manufacturing of decorative objects imitating glass	FS1973

Derakane - Epoxy Vinyl Ester Resin / Corrosion Resistant



Other variants available.

DESCRIPTION	PRODUCT
Bisphenol - A based epoxy vinyl ester resin. Good balance of toughness, chemical and thermal resistance. Best for bases, hypochlorite and water	411
Bisphenol - A based epoxy vinyl ester resin. Low styrene content (<35%), improved heat distortion temperature, improved solvent resistance, good elongation	441
Novolac based epoxy vinyl ester resin. Optimised for chemical/solvent and thermal resistance	470
Brominated epoxy vinyl ester resin (Bis A; N type: Novolac). Good flame retardance	510
Bis A EVER designed for Pultrusion. Good line speed	640
Toughened/Flexible Bis A EVER	80XX

New Derakane™ Signia™



Derakane™ signia™ incorporates the best features of Ashland’s legacy resins while continuing to elevate the industry through signia™’s modern list of features and benefits.

IN THE SHOP	IN THE FIELD
Improved shop efficiency – formulated to provide an easy prep surface, increased secondary bonding and reduced gassing for faster consolidation and less process time	Identical backbone – built with unchanged polymer chemistry to deliver the same corrosion properties, mechanical properties and better processing
Low styrene emission – prepared with an innovative styrene suppressant system to reduce emissions extend permits, and provide a low odour environment	Verifiable Identification – unique, proprietary detection system to now verify the integrity of your design wherever corrosion-resistant fiberglass reinforced plastic (FRP) pipes and tanks are specified
Longer shelf life – delivered with extended shelf life to maintain processing characteristics	

Aropol - Isophthalic Resin

DESCRIPTION	REMARKS	PRODUCT
Pre-accelerated thixotropic, isophthalic resin, LLOYDS APPROVED	Medium gel time	K 510 TA
Pre-accelerated thixotropic, isophthalic resin. High mechanical and chemical resistance properties, LLOYDS APPROVED	Short gel time	K 530 TE
Pre-accelerated thixotropic, isophthalic resin. High mechanical and chemical resistance properties, LLOYDS APPROVED	Medium gel time	K 530 TB
Pre-accelerated isophthalic resin, high HDT (125°C), good chemical resistance	Short gel time	S 599 TE

Aropol - RTM/Infusion Resins

DESCRIPTION	REMARKS	PRODUCT
Pre-accelerated low viscosity orthophthalic resin	Short gel time	G 105 E
Pre-accelerated low viscosity orthophthalic resin	Medium gel time	G 105 AS
Pre-accelerated low styrene content resin with good mechanical properties and high HDT	Gel time 120 mins	G 235 E - 4163
Premium marine resin. Pre-accelerated non-thixotropic epoxy vinyl ester resin used in the production of high performance marine composites	Gel time 35 mins*	AME 6000-INF T35
Pre-accelerated low viscosity DCPD resin, very low shrinkage	Short gel time	S 604 E
Pre-accelerated low viscosity DCPD resin, very low shrinkage, LLOYDS APPROVED*	Long gel time	S 604 INF

Others available on request.

*Gel time can be modified as required.

2 GELCOAT



“ When you're supplying the highest calibre
products only a first-rate service will do. ”

2 / GELCOAT

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Standard Isophthalic

DESCRIPTION	PRODUCT
Non pigmented pre-accelerated brush gelcoat	GE NTRL BR
White pre-accelerated brush gelcoat	GE WHI BR
Non pigmented pre-accelerated spray gelcoat	GE NTRL S
White pre-accelerated spray gelcoat	GE WHI S

Maxguard - ISO/NPG

DESCRIPTION	PRODUCT
Pre-accelerated brush. Very good mechanical and weathering properties. Specially recommended for water and UV resistance.	GN NTRL BR
Spray version of the above	GN NTRL S
White version of GN NTRL BR	GN WHI BR
White version of GN NTRL S	GN WHI S
Transparent, colourless spray gelcoat. Recommended for sanitary ware.	GN NTRL SPRAY

Maxguard - Low Styrene Emission

DESCRIPTION	PRODUCT
Premium, non pigmented hand gelcoat. Reduces VOC emissions by up to 50%. Excellent UV resistance and low shrinkage	NP NTRL BR
White version of the above	NP WHI BR
Non pigmented spray version of the above	NP NTRL S
White spray version of the above	NP WHI S

All the above Ashland grades of gel coat meet the requirements of Lloyds Register of Shipping and Det Norske Veritas. Each of the grades can be supplied in a range of colours. Gelcoat is available for other applications, e.g. tooling/sanding.
Details on request.

Enguard Industrial Grade

DESCRIPTION	PRODUCT
Non-marine gelcoat	GP
Marine grade gelcoat	GE

Instint Colour Service

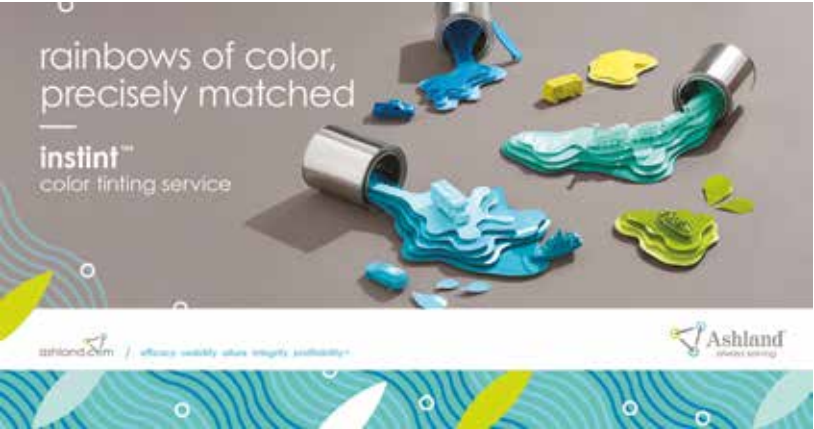
Ashland’s Instint colour tinting service is a unique in-can tinting system for gelcoats widely recognized as the benchmark gelcoat tinting system. The Instint colour tinting service accurately dispenses colourants and adjusts gel times with Ashland’s patented auto-adjust pastes.

The Three-Step Instint In-can colour tinting process:

1. Colour scanning
2. Formulation
3. Colour dispensing

- Simple, accurate & fast
- Proven reliability for more than two decades
- Consists of state-of-art dispensing technology: gelcoats, colourants, dispensers, software and new innovative colour scanner system
- Able to rapidly deliver high quality gelcoats with excellent colour accuracy and batch to batch repeatability

INSTINT concept has the capacity to incorporate most international and local colour standards, produced with colourants that are free of heavy metal pigments, therefore reducing the health risks associated with handling and applying the gelcoats.



3 TOOLING



“ Over 200 years of composite expertise
means delivering better solutions. ”

3 / TOOLING

The Tooling Concept

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The Tooling Concept – Proven low profile technology

TOOLING CONCEPT FOR EXCELLENT DIMENSIONAL STABILITY WITH EASY LAMINATION

MAXGUARD® GT tooling gelcoat

AME® 6000 T-35 skin coat resin

AROPOL® XO tooling resin

ADVANTAGES OF THE XO TOOLING CONCEPT

MAXGUARD® GT gelcoat gives a hard, glossy surface with good heat and chemical resistance.

AME® 6000 T-35 skin coat with low shrinkage gives good mechanical support to the gelcoat.

AROPOL® XO tooling resin gives the final tool dimensional stability and superior profile.

- The three products are easy to apply by spray-up/spraying or by hand lay-up/brushing.
- The low styrene emission from skin coat and tooling resin improves working environment.
- Only one type of peroxide is needed for curing the three products.

The Tooling Concept provides an efficient way of building high quality tools.



MAXGUARD® GT tooling gelcoat

MAXGUARD® GT Tooling Gelcoat is based on epoxy vinyl ester which is a guarantee for a hard and glossy tool finish. Also good mechanical and chemical resistance of the tooling gelcoat will increase life time of the tool. MAXGUARD GT Tooling Gelcoat is available in spray and brush quality.

- Ensure that temperature of the work shop as well as plug/model and tooling gelcoat is 20 - 25 °C.
- Spray by low pressure airless gun / cup or by brush.
- Spray tooling gelcoat carefully wet on wet in three passes; first 200 microns (for good air release) and then 300-400 microns followed by 300-400 microns, to give final cured gelcoat thickness 700-900 microns.
- Use high quality MEK-peroxide 1,5 volume % (15 ml MEK-peroxide to 1 kg of tooling gelcoat).
- Allow tooling gelcoat to fully cure (2-3 hours) before continuing work.

AME® 6000 T-35 skin coat resin

AME® 6000 T-35 Skin Coat is a special epoxy vinyl ester based resin with low shrinkage. The skin coat resin with its low viscosity and high mechanical strength gives an initial layer free of cavities and provide good support for the tooling gelcoat. AME 6000 T-35 Skin Coat is recommended for big tools under a lot of stress, tools of complicated structures and tool edges/flanges which come under lot of stress. AME 6000 T-35 Skin Coat is available for hand lay-up and spray-up applications.

- Ensure that temperature of the work shop as well skin coat resin is 20 - 25 °C.
- Use high quality MEK-peroxide 1,5 volume % (15 ml MEK-peroxide to 1 kg of skin coat resin).
- Roll out laminate carefully to a smooth surface avoiding irregularities or fibers sticking out which can create air pockets in the final laminate.
- Lamination work with AROPOL XO can start when the skin coat resin is fully cured (2-3 hours).



AROPOL® XO tooling resin

AROPOL® XO is a unique new tooling resin based on Ashland's proven low profile (LP) technology which gives the final tool a superior surface profile and good dimension stability. The low viscosity and good curing characteristics of the tooling resin makes it easy to apply and to achieve good final laminate properties. AROPOL XO resin is available for hand lay-up and spray-up applications.

- Ensure that the temperature of the work shop and the tooling resin is 20-25 °C.
- Use high quality MEK-peroxide 1,5 volume % (15 ml MEK-peroxide to 1 kg of tooling resin).
- Build a minimum laminate thickness of 5 mm wet on wet with powder bound mat (4 x 450 g/m²) by hand lay-up or by spray-up.
- When curing between layers, check that the underlaying laminate is fully cured (2-3 hours) before continuing work.
- The glass fibre content of final laminate will be 25-30 %.
- Post curing (still on plug/model) will improve final dimensional stability of tool*.
- Master tool or final tool should not be demoulded from plug or master before 24 hours after finishing lamination work.
- Storage time of AROPOL® XO tooling resin is four (4) months.
- AROPOL® XO tooling resin is delivered in 20/25 kg pails and 250 kg drums.

* initial good curing of gelcoat, skin coat and tooling resin is most important and cannot be compensated for by post curing.



4 REINFORCEMENTS



“ Relationships are built around trust and honesty. They are cemented when you deliver what you have promised. ”

4 / REINFORCEMENTS

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Chopped Strand Mat
Emulsion Bound

E-glass emulsion chopped strand mats are an unwoven fabric consisting of randomly distributed chopped strands held together with an emulsion binder.

COMPATIBLE RESINS AND APPLICATIONS

Emulsion chopped strand mats are compatible with unsaturated polyester, vinyl ester and epoxy and phenolic resins. The products are most widely used in a hand lay-up process and can also be used in filament winding, compression moulding and continuous laminating processes. The typical end products include various panels, marine, sanitary ware, tanks, automotive parts, aerospace applications, architectural mouldings, construction, and cooling towers.

PRODUCT	Chopped Strand Mat - EMC	
SPECIFICATION	weight	225, 300, 450, 600, 900 g/m ²
	width	95, 127 and 137cm
DESCRIPTION	LLOYDS APPROVED emulsion bound mat with fast impregnation and excellent air release properties.	



Powder Bound

E-glass powder chopped strand mats are an unwoven fabric consisting of randomly distributed chopped strands held together with a powder binder.

COMPATIBLE RESINS AND APPLICATIONS

Powder emulsion bound chopped strand mats are compatible with unsaturated polyester, vinyl ester, phenolic and epoxy resins. The products are most widely used in a hand lay-up process and can also be used in filament winding, compression moulding and continuous laminating processes. The typical end products include various panels, marine, sanitary ware, tanks, automotive parts, aerospace applications, architectural mouldings, construction, and cooling towers.

PRODUCT	Powder Bound Mat - PO2	
SPECIFICATION	weight	225, 300, 450, 600 g/m ²
	width	95, 127 and 137cm
DESCRIPTION	LLOYDS APPROVED emulsion bound mat with fast impregnation and excellent air release properties.	



Woven Roving

E-glass woven rovings are a bi-directional fabric made by interweaving direct rovings.

COMPATIBLE RESINS AND APPLICATIONS

E-glass woven rovings are compatible with many resin systems such as polyester, vinyl ester, epoxy and phenolic resins. E-glass woven rovings are a high-performance reinforcement widely used in hand lay-up and robotic processes for the production of marine, vessels, aerospace and automotive parts, construction and architecture, and furniture and sports facilities.

PRODUCT	Woven Roving - EWR	
SPECIFICATION	weight	290, 600, 800 g/m ²
	width	100cm

Other specifications available on request, including slit width materials.

PRODUCT FEATURES

- Warp and weft rovings aligned in a 0° and 90° direction to enable uniform tension.
- Densely aligned fibres, resulting in high dimensional stability and easy handling.
- Good mouldability, fast resin impregnation to enable higher productivity.
- Good transparency and high tensile strength.



Chopped Strands
BMC/DMC

E-glass chopped strands for BMC/DMC are designed for reinforcing polyester, phenolic and epoxy resins.

E-glass chopped strands for BMC/DMC are widely used in the transportation, construction, architecture, electronics and chemical industries, and light industry, such as for automotive parts, insulation and switch boxes.

PRODUCT NO.	LINEAR DENSITY, TEX	RESIN COMPATIBILITY	REMARKS
562E	3, 4.5, 6, 12, 18	UP, EP, PF	Length of chopped strands evenly dispersed during stirring, to increase the strength of composite components.

PRODUCT FEATURES

- Fast resin wet-out.
- Low fuzz.
- High fibre integrity.
- Excellent mechanical properties.

PRODUCT FEATURES

- Uniform density ensures consistent high quality fibre distribution to ensure mechanical properties of the composite components. These features allow easy cutting & handling, less fly & fibre loss.
- Fast impregnation allows quick resin wet-out and rapid air release. This product also offers no spring back and sharp angles.
- The composite products have high dry and wet tensile strength and offer good transparency.



Thermoplastics

E-glass chopped strands for thermoplastics are designed for reinforcing PP, PA, AS/ABS, PET, PBT and PC.

COMPATIBLE RESINS AND APPLICATIONS

E-glass chopped strands for thermoplastics are mainly used in injection and compression moulding processes and its typical end-use applications include the automotive industry, home appliances, valves, pump housings, chemical corrosion resistance and sports equipment.

PRODUCT FEATURES

- Silane-based coupling agent which delivers most balanced sizing properties.
- Special sizing formulation which delivers good bonding between chopped strands and matrix resin.
- Good mouldability and fibre dispersion.
- Excellent mechanical properties and surface condition of composite materials.

PRODUCT NO.	LINEAR DENSITY, TEX	RESIN COMPATIBILITY	REMARKS
508A	3, 4.5	PP	General purpose
526	3, 4.5	ABS	General purpose
534A	3, 4.5	PET, PBT	General purpose
560A	3, 4.5	PA6, PA66	General purpose
568H	3, 4.5	PA6, PA66	Hydrolysis resistance, excellent Lustre

Wet Chopped Strands

E-glass wet chopped strands are designed for reinforcing unsaturated polyester, epoxy and phenolic resins and gypsum.

COMPATIBLE RESINS AND APPLICATIONS

E-glass wet chopped strands are principally used in water dispersion processes which can enhance surface strength, smoothness and chemical resistance of the end products and have numerous applications including waterproof roofing materials, FRP surfaces and facing material, floor coverings and battery separators.

PRODUCT FEATURES

- Optimum moisture content.
- Good dispersion in water.
- Superior flow consistency.
- Outstanding fibre dispersion in gypsum.
- Uniform fibre distribution in plasterboard.

PRODUCT NO.	LINEAR DENSITY, TEX	RESIN COMPATIBILITY	REMARKS
548	12, 25	Multi-compatible	water dispersion
546	12	Gypsum	wet dispersion



Assembled Rovings

Spray Up

COMPATIBLE RESINS AND APPLICATIONS

E-glass assembled rovings for spray-up are compatible with polyester, vinyl ester and polyurethane resins. E-glass assembled rovings for spray-up are typically used to produce FRP boat hulls, sanitary apparatus, pipes, automotive parts, cooling towers and septic tanks.

PRODUCT FEATURES

- Good flow when run through the spray apparatus.
- Offers excellent properties when vertical spraying.
- Suitable for all product applications.

PRODUCT NO.	LINEAR DENSITY, TEX	RESIN COMPATIBILITY	REMARKS
180	2400	UP, PU, VE	General Purpose LLOYDS APPROVED No spray back at sharp angles Particularly suitable for spraying vertical surfaces.



SMC

COMPATIBLE RESINS AND APPLICATIONS

E-glass assembled rovings for SMC are compatible with polyester and vinyl ester resins. E-glass assembled rovings for SMC are typically used to produce automotive parts, doors, chairs, sanitary apparatus, water tanks and sports equipments.

PRODUCT FEATURES

- Good choppability.
- Good dispersion.
- Excellent anti-static property.
- Excellent mechanical properties.

PRODUCT NO.	LINEAR DENSITY, TEX	RESIN COMPATIBILITY	REMARKS
440	2400, 4392, 4800	UP, VE, PU	General purpose SMC
456	2400, 4392, 4800	ABS	Class A SMC, suitable for automobile parts with high quality surface, whitish roving, high glass content possible



Sheeting

COMPATIBLE RESINS AND APPLICATIONS

E-glass assembled panel rovings are compatible with polyester resins. E-glass assembled panel rovings are typically used to produce various FRP panels which offer light weight, structural strength, high impact resistance and good light transmittance.

PRODUCT NO.	LINEAR DENSITY, TEX	RESIN COMPATIBILITY	REMARKS
838	2400, 3200	UP	Good dispersion, low static, general purpose panel roving
872	2400	UP	Good choppability and dispersion, suitable for high transparency panels

PRODUCT FEATURES

- Consistent, reliable chopping performance.
- Low static generated.
- Flat and homogeneous mat forming.
- Rapid resin wet-out.
- Excellent translucency of laminates and weathering qualities.

Direct Rovings

Filament Winding

COMPATIBLE RESINS AND APPLICATIONS

E-glass direct rovings for filament winding are designed for reinforcing unsaturated polyester, vinyl ester, phenolic and epoxy resins. E-glass rovings for filament winding are typically used to produce pipes of various diameters, storage tanks and rods which are widely used in transportation, aviation and space, military and electrical sectors.

PRODUCT NO.	LINEAR DENSITY, TEX	RESIN COMPATIBILITY	REMARKS
318	1103, 1200, 1985, 2100, 2400, 4800	EP	Good wet-out, high strength, low fuzz
386	600-4800	UP, VE, EP, PF	General purpose
386T	600-4800	UP, VE, EP, PF	As 386 but produced from high strength E6 glass

PRODUCT FEATURES

- Good flow when run through the spray apparatus.
- Uniform tension and low fuzz.
- Fast and complete wet-out in all resin systems.
- Good mechanical properties.



Pultrusion

COMPATIBLE RESINS AND APPLICATIONS

E-glass direct rovings for pultrusion are compatible with polyester, vinyl ester and epoxy resins, and are specifically used to produce gratings, various rods and profiles.

PRODUCT NO.	LINEAR DENSITY, TEX	RESIN COMPATIBILITY	REMARKS
386T	600-9600	UP, VE, EP, PF	General purpose, produced from high strength E6 glass
316	300, 600, 1200, 2400	UP, VE, EP	Fast wet-out, high strength, reinforced core of cable
312	300-9600	UP, VE, EP	Fast wet-out, high strength, low fuzz

PRODUCT FEATURES

- Low fuzz during processing.
- Fast wet-out and wet-through.
- Good impregnation and excellent mechanical properties.
- Strands are easily opened to expose their filaments.
- High strength.
- Even payout tension.
- Available in creel pack.



Weaving

COMPATIBLE RESINS AND APPLICATIONS

E-glass direct rovings for weaving are compatible with polyester and vinyl ester, phenolic and epoxy resins. E-glass direct rovings for weaving are specially used to produce woven rovings used as reinforcement for marine, wind energy and chemical containment.

PRODUCT NO.	LINEAR DENSITY, TEX	RESIN COMPATIBILITY	REMARKS
328	300-2400	UP, EP	Used to produce UD or multiaxial fabrics for vacuum infusion
320	600-4800	UP, VE, EP	Good weaving properties, low fuzz, general purpose
386T	600-2400	UP, EP	Used to produce woven, UD or multiaxial fabrics

PRODUCT FEATURES

- Excellent package transfer.
- Good processing characteristics.
- Fast wet-out in thermoset resin systems.
- Provides strand hardness without sacrificing rapid and complete wet-out.
- Low fuzz.

Continuous Roving



DESCRIPTION	PRODUCT
Assembled roving specially designed for the filament winding process - compatible with unsaturated polyester resins	266
Direct roving for pultrusion process - compatible with unsaturated polyester resins, vinyl esters and epoxy resins	312
Direct roving for weaving - compatible with unsaturated polyester resins, vinyl esters and epoxy resins	320
Direct roving for filament winding - compatible with unsaturated polyester resins, vinyl esters and epoxy resins	386
Assembled rovings designed for Class A surface using SMC process	440/442
Assembled rovings for continuous panel production	838/872

The above continuous roving products are available in a range of Tex values.

Combination Products



DESCRIPTION	PRODUCT
CSM Available stitched or powder bonded. Standard width = 1000mm LLOYDS APPROVED	600g WR/300g
CSM Available stitched or powder bonded. Standard width = 1000mm. LLOYDS APPROVED	800g WR/300g

Other combinations and widths for woven roving and chopped strand mat are available on request.



5 CATALYSTS AND CORE MATERIALS



“ Our culture is built around putting
people at the heart of our business. ”

5 / CATALYSTS AND CORE MATERIALS

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Catalysts - AKPA

DESCRIPTION	PRODUCT
Low active MEKP	A30
Medium active MEKP	A50
High active MEKP	A60
Acetyl acetone peroxide. Fast cure for use in closed mould process	AAP
High quality "gelcoat grade" MEKP peroxide with very low water content	A50G
General purpose MEKP for curing unsaturated polyester resins at room temperature. Particularly for applications requiring long gel time, and recommended to be used with vinyl esters.	AKPEROX LPT
Tert-Butyl peroxide initiator for low density polyethylene production.	EFOX 60 (TBPIN)

U-Pica Mat® Bulker Control Mat

DESCRIPTION	THICKNESS	LENGTH X WIDTH	PRODUCT
<p>U-Pica Mat® works polyvinylidene chloride microspheres into long-fibre nonwoven fabric, and thermally expands them in the presence of a special binder. Low density, non-woven, continuous strand, gives the laminate bulker print control.</p> <p>U-Pica Mat® is available in 5 standard grades and contains approximately 45% by volume of micro balloons, and has a density of 0.045G/cm². It offers excellent wet-out properties, for unsaturated polyester resins, and is highly compatible, absorbing approximately 55% of its own volume in resin. Even after curing no change of thickness is observed.</p> <p>U-Pica Mat® is Ideal for building construction, aircraft and vehicular construction, and refrigeration engineering.</p>	1mm	50m x 1m	U-Pica Mat®
	2mm	50m x 1m	
	3mm	50m x 1m	
	4mm	50m x 1m	
	5mm	50m x 1m	



Rigid Polyurethane Foam

DESCRIPTION	PRODUCT
Lightest density polyurethane foam, this is a prime material usually used as insulation, in hand lay composite cores and offers good buoyancy characteristics.	Tricast 2 - 32kg/m ³ Density
Lightweight PIR (polyisocyanurate) foam with the added advantage of a Class M1, B2 Fire rating making it suitable for shaping and moulding applications with fire resistance requirements.	Tricast 2T - 38kg/m ³ Density
The lowest density for detailed sculpturing, a lightweight polyurethane foam especially effective either for hand lay up or infusion moulding and good to carve and shape.	Tricast 3 - 48kg/m ³ Density
The lowest density of the range usually used as a structural core material. Medium density polyurethane foam suitable for GRP composite moulds and panels, easy to shape, offering a stiffer surface finish suitable for vacuum infused moulds and hand lay-up moulding.	Tricast 4 - 64kg/m ³ Density (available scored)
A good structural standard medium density polyurethane foam widely used as reinforcement in GRP tooling suitable for GRP composite moulds and good to machine.	Tricast 5 - 80kg/m ³ Density (available scored)
Our highest density of the Tricast range polyurethane foam suitable for structural work where lightness and strength are equally important with smoother surface and lower resin uptake. Very good to machine and used in boat decks and stiffening structural areas for load bearing purposes.	Tricast 6 - 96kg/m ³ Density (available scored)

Also available: PETs and PVCs

Surface Tissue

DESCRIPTION	PRODUCT
ECR tissue mainly used in the surface layers of FRP products. Excellent fibre distribution, smooth surface appearance of finished products, corrosion resistant and low binder content. Available in 30g/m ² .	ECR Tissue

Metycure - RTM Glass

DESCRIPTION	PRODUCT	MAIN BENEFITS	AVAILABILITY
Engineered core sandwiched between two layers of chopped strand mat to help the resin traverse the laminate with maximum speed and precision. Designed to conform to the shape of the mould. A wide product range with high drapeability and excellent resin flow.	Metycure	High drapeability Excellent resin flow Wide product range	200M / 180PP / 200M
			200M / 250PP / 200M
			300M / 180PP / 300M
			300M / 250PP / 300M
			450M / 180PP / 450M
			450M / 250PP / 450M
			600M / 180PP / 600M
			600M / 250PP / 600M
			750M / 180PP / 750M
			750M / 250PP / 750M
			900M / 180PP / 900M
			900M / 250PP / 900M



Two Part Liquid Foam

DESCRIPTION	PRODUCT
Available in densities from 35kg/m ³ (low) to 210kg/m ³ (high). For encapsulation	Tripur 227 two part liquid system

Higher densities available on request.



6 CONSUMABLES



“What is key to the business is being able to add value to customers through our experience, expertise and innovative products.”

6 / CONSUMABLES

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Available online at www.fibreglasstoolsdirect.com

Abrasives



FIBRE DISCS P24-P36

Abrasive sanding disc with Alox/Zirconia mix.

- Long life
- Very aggressive

Applications

- Normal ferrous metals
- Steels
- Carbon steels

ITEM	CODE
24 Grit	012046
36 Grit	012052



ABRASIVE DISCS P40 - P120

Full bonded aluminium oxide abrasive paper, D weight backing, open structure.

For dry operations with random orbital sanders. Smoothing of metal surfaces before painting.

Applications

- Fillers
- Priming on metals

ITEM	CODE
Abrasive Disc 8 Holes P40	012064
Abrasive Disc 8 Holes P60	012065
Abrasive Disc 15 Holes P80	012066
Abrasive Disc 15 Holes P120	012067



ABRASIVE DISCS - P180 - P1500

Full resin bonded aluminium oxide abrasive paper with lubricant, B weight backing, open structure. For dry operations with random orbital sanders.

Applications

- Paints
- Priming
- Fillers
- Lacquers

ITEM	CODE
Abrasive Disc 15 Holes P180	012068
Abrasive Disc 15 Holes P240	012069
Abrasive Disc 15 Holes P320	012070
Abrasive Disc 15 Holes P400	012071
Abrasive Disc 15 Holes P500	012072
Abrasive Disc 15 Holes P600	012073
Abrasive Disc 15 Holes P800	012074
Abrasive Disc 15 Holes P1000	012075
Abrasive Disc 15 Holes P1200	012076
Abrasive Disc 15 Holes P1500	012077



ABRASIVE ROLL

Full resin bonded aluminium oxide abrasive paper, D weight backing, extra open structure. For hand and orbital sanding operations. Dry uses.

Good flexibility.

Applications

- Wood
- Paints
- Fillers
- Plastic materials
- 115mm x 50mtr

ITEM	CODE
40 Grit	012090
60 Grit	012091
80 Grit	012092
120 Grit	012093

WET & DRY

Full resin bonded silicon carbide abrasive paper, C weight backing - with latex - closed structure. For hand operations. Dry and wet uses.

- very high flexibility

Applications

- Painted wood
- Lacquers
- Plastic materials
- Fillers
- Marble and stone
- 25 sheets



ITEM	CODE
120 Grit	012078
180 Grit	012079
240 Grit	012080
320 Grit	012081
400 Grit	012082
500 Grit	012083
600 Grit	012084
800 Grit	012085
1000 Grit	012086
1200 Grit	012087
1500 Grit	012088
2000 Grit	012089

Full range of products available.

Solvents & Additives

ITEM	CODE
Acetone (25 Litre)	029002
Acetone (205 Litre)	029001

ACETONE

Cleaning solvent for resin based products. Acetone will clean Laminating brushes, paddle rollers and all other fibreglass related tools.

ITEM	CODE
Easyclean	055000
Easyclean Work Station (25 litre)	055001
Easyclean Work Station (50 litre)	055002
Easyclean Work Station (75 litre)	055003



EASY CLEAN - ACETONE REPLACEMENT

Easy Clean is the new generation of acetone replacements which works with polyester, vinyl ester, epoxy and phenolic resins. With a solvency rate comparable to acetone in a cold state, heated systems are no longer needed. Easy Clean is approved for all hand lay applications and by a number of machine manufacturers.

EASY CLEAN - WORKSTATION

Low-cost portable light-weight polypropylene workstation with an easy to clean non-stick surface.

For use with Easy Clean, the unit is fitted with an air driven roller drier which has rollers completely clean and dry in just one minute.

ITEM	CODE
Thinners 046 (5 Litre)	016009

THINNERS

For cleaning of application equipment.

ITEM	CODE
Styrene (4 kg)	016027
Styrene (20 kg)	016028



STYRENE MONOMER

All resins contain a specific amount of styrene in the formulation which lends to the required viscosity as required by the use of the resin. More styrene may be added to the resin if the viscosity is too high and the resin needs to be thinned for your purpose such as spraying. Styrene may be added by 3 - 7 % of the resin, an increase in this amount may start to effect the properties of the resin. Styrene is also used as a solvent for oils and grease, making it useful to increase adhesion when de-greasing materials before grp application.

ITEM	CODE
2% Wax Solution (4 kg)	016023



WAX SOLUTION 2%

Generally speaking most unsaturated polyesters are prone to air inhibition and therefore, in order to obtain a tack free surface a small amount of paraffin wax solution is added when applying the final layer or reinforcement. Wax should not be added to resin when it is proposed to apply further resin and glass to the cured surface, as poor adhesion may result. Any surface area of a cured laminate having excess of resin must also be abraded before the laminating is continued. Recommended level of paraffin wax solution is 2-5% of 2% wax.

ITEM	CODE
6% Wax Solution (4 kg)	016025

WAX SOLUTION 6%

Generally speaking most unsaturated polyesters are prone to air inhibition and therefore, in order to obtain a tack free surface a small amount of paraffin wax solution is added when applying the final layer or reinforcement. Wax should not be added to resin when it is proposed to apply further resin and glass to the cured surface, as poor adhesion may result. Any surface area of a cured laminate having excess of resin must also be abraded before the laminating is continued. Recommended level of paraffin wax solution is 1-2% of 6% wax.

Backing Plates/Adaptors



SEMI-FLEXIBLE BACKING PLATE

ITEM	CODE
125mm	039019
150mm	039020



SINGLE SIDED BACK PLATE

For use with curved wool pad 175mm

ITEM	CODE
175mm	039021



CONNECTOR FOR DOUBLE SIDED WOOL PAD

Connector for Double-sided Wool Pad 14mm

ITEM	CODE
14mm	039022

Brushes



GRP SUPER BRUSH

- Plastic Ferrule, prevents scratching the surface.
- Improved bristle retention.
- Bleached white bristle.

ITEM	CODE
GRP Blue Handled Super Brush 30mm	011012
GRP Blue Handled Super Brush 40mm	011013
GRP Blue Handled Super Brush 50mm	011014
GRP Blue Handled Super Brush 60mm	011015
GRP Blue Handled Super Brush 70mm	011016

GELCOAT BRUSHES

British made pure white bristle brushes with plastic handle.



ITEM	CODE
Gelcoat Brush 12mm	011006
Gelcoat Brush 25mm	011007
Gelcoat Brush 38mm	011008
Gelcoat Brush 50mm	011009
Gelcoat Brush 75mm	011010
Gelcoat Brush 100mm	011011

RESIN / LAMINATING BRUSHES

Imported pure white bristle brushes with plastic handle.



ITEM	CODE
Resin / Laminating Brush 12mm	011000
Resin / Laminating Brush 25mm	011001
Resin / Laminating Brush 38mm	011002
Resin / Laminating Brush 50mm	011003
Resin / Laminating Brush 75mm	011004
Resin / Laminating Brush 100mm	011005

ODD SPOT BRUSH

Lily bristle. Angled plastic handle.



ITEM	CODE
Odd Spot Brush 25mm	011017
Odd Spot Brush 50mm	011018

Compounding Heads



SINGLE SIDED WOOL PAD

PAIBOAT Single Sided Wool Pad 180mm

ITEM	CODE
Single Sided Wood Pad	039010



DOUBLE SIDED WOOL PAD

Curved twisted, double sided fine wool pad 180mm

ITEM	CODE
Double sided wool pad	039011



LAMBSWOOL PAD

Fine Wool Pad - 1 Pc nylon bag with blister

ITEM	CODE
75mm (pack of 12)	039015
150mm	039014
180mm	039013



WHITE FOAM POLISHING PAD

White hard foam polishing pad for coarse cutting action. Size 150mm (4 per bag)

ITEM	CODE
White Foam Polishing Pad	039016



BLUE MEDIUM FOAM POLISHING PADS

Blue medium-soft polishing pad

ITEM	CODE
Double sided wool pad	039017



BLACK SOFT FOAM POLISHING PADS

Black soft waved foam polishing pad for final gloss and protection.
Size 150mm (2 per pack)

ITEM	CODE
Black Soft Foam Polishing Pads	039018

Polishing Compounds



PAI BOAT NW 0 HARD CUT

This is a super cutting compound especially recommended for applications on hard resins such as vinylester. It removes marks and P800-P1000 sand scratches very fast and well, according to the hardness of treated resins. It assures a high quality finish, without overheating and greasing the surface. NW 0 has been expressly formulated by our lab to serve the need of polishing the toughest moulds in the quickest way, achieving unbelievable results.

ITEM	CODE
Pai Boat NW 0 (1kg) Polishing Compound	013014
Pai Boat NW 0 (3kg) Polishing Compound	013015



PAI BOAT NW 1 PREMIUM

This is a super cutting compound used either to remove marks and P600-P800 sand scratches (according to the hardness of treated resins) or to restore high-oxidized gelcoats very fast and well, without overheating the surface. It assures a high quality finish without marks and haze as well as with low particles' over-splating. NW 1 is widely appreciated as, through its specific abrasive components, it makes polishing easier and faster and allows to reduce the sanding processes.

ITEM	CODE
Pai Boat NW 1 Polish Compound (1kg)	013016
Pai Boat NW 1 Polish Compound (3kg)	013017



PAI BOAT NW 6 RAPID CUT

This is a medium cutting compound used either to remove marks and P800-P1000 sand scratches (according to the hardness of treated resins) or to restore oxidized gelcoats very fast and well, without overheating the surface. It assures an excellent gloss level, minimising the formation of holograms and minor marks. NW 6, through its perfectly balanced components, is the ideal solution for dark coloured and delicate surface treatment, where the aim is a first-class finish.

ITEM	CODE
Pai Boat NW 6 (1kg)	013018
Pai Boat NW 6 (3kg)	013019



PAI BOAT JUST 1 POLISHING COMPOUND

Cutting polishing liquid compound 2 in 1, which combined an excellent restoring action with a supreme gloss finish. It removes either medium oxidation, marks and yellowing or medium-fine sand scratches (P1000-P1500, according to the hardness of treated resins), very fast and well, without overheating the surface. JUST 1 is the quickest and more effective way to restore the deep shine of the surface back to a like-new condition with just one product and without waste of time and material.

ITEM	CODE
Pai Boat Just 1 (1kg)	013020



PAI BOAT NW 65 ABRASIVE POLISH

Abrasive polish for the surface treatment of resins and composite materials used to remove minor scratches and small defects as well as swirl marks, which may come from previous coarse compounds. Through its combination of micro-abrasives and glossifiers, it has an excellent refinishing action on plugs and moulds. It removes light oxidation, yellowing, black and rusty streaks, tough water spots and pollution marks, restoring the original deep shine of the surface.

ITEM	CODE
Pai Boat NW 65 Abrasive Polish (1kg)	013022



PAI BOAT TOPFINISH 2 NANO REFINISHING POLISH

This is a nano-abrasives based refinishing polish able to permanently remove swirls, polishing marks resulting from previous coarse compounds and holograms, which are more visible on dark colours. TOPFINISH 2, recently powered by our R&D department, is the best solution for the extreme refinishing action even of the most delicate and difficult surfaces. Thanks to its balanced and effective blend of nano-abrasives and high performance polishing agents, it allows to achieve the highest standard of perfection and brightness in a safe, simple and quick way.

ITEM	CODE
Pai Boat Topfinish 2 (1kg)	013024



PAI BOAT EASY GLOSS POLISH AND WAX

This is a renewer protective polish, which gives high gloss finishing while adding wax protection on gelcoat and composites surfaces. It safely removes light oxidation, stains and water spots, restoring the original deep shine of the surface; at the same time, it helps stop fading caused by UV rays, natural elements, salt water and chalk. Thanks to its advanced formula, made of last-generation polymers, EASY GLOSS adheres to the surface, thus leaving an enduring protective and water-repellent film, as well as an unbelievable slick finish and radiant shine. It is very fast to apply with a foam pad (by hand or polisher) and extremely easy to remove. Unlike many other polishing products on the market, it can be wax off effortlessly also after several hours.

ITEM	CODE
Pai Boat Easy Gloss Polish and Wax (1kg)	013026



PAI BOAT UV SHIELD PREMIUM SEASONAL WAX

Super protective and ultra-performing wax for gelcoat and composite materials, with amazing water beading proper- ties and highly resistant. It leaves a thin but tough film that anchors to the surface, keeping it shiny and protected from UV rays, weathering, pollution, tree sap, droppings, etc. UV SHIELD has been specifically formulated by our lab to assure a real protective shield that lasts a season. Thanks to its balanced blend of UV ray inhibitors, Carnauba waxes and polymers, it feeds and restores the original deep shine of surfaces, leaving a protective water repellent barrier and a rich gloss that lasts for long time.

ITEM	CODE
Pai Boat UV Shield Premium Seasonal Wax (0.5kg)	013028



PAI BOAT FLASH TOUCH

This is an anti-haze polish spray with excellent cleaning properties. It allows to clean and polish in only one step, assuring a long-lasting protection. It may be used on paints, plastics, rubber and glasses (but not on the windscreen), leaving an unbelievable shine for a long time.

ITEM	CODE
Pai Boat Flash Touch (0.5kg)	013029



PAI BOAT CLEAN AND CHECK

Specific product for a good control of the elimination of sandpaper scratches. Through its innovative components, this specific cleaner removes layers that usually hides defects and marks and brings up scratches, holograms and hazes, without affecting the gloss level. It may be used to clean also plastics, rubber, glasses and resins, etc.

ITEM	CODE
Pai Boat Clean & Check CC7 (0.5kg)	013032



PAI BOAT CARBON LOOK LINE

Your solution for carbon and dark colours finishing

ITEM	CODE
Pai Boat NW1 Black (1kg)	013030
Pai Boat Topfinish 2 Black (1kg)	013031

Getting the gloss back on a carbon fibre mast prevented a clear coat respray and saved the customer £700!



Consolidating Rollers

BUBBLE BUSTERS

Bubble Busters are a cross between paddle and fin rollers taking the strengths of both to provide a perfect consolidating action with reduce splash back.



ITEM	CODE
Bubble Buster 50mm x 15mm	014009
Bubble Buster 70mm x 21mm	014011
Bubble Buster 70mm x 45mm	014014
Bubble Buster 100mm x 15mm	014010
Bubble Buster 140mm x 21mm	014013
Bubble Buster 140mm x 45mm	014015
Bubble Buster 225mm x 45mm	014016

PADDLE ROLLERS

Perfect tool for a quick wet out and air remove on a large surface.

This popular tool is also the least expensive and therefore one of the best value rollers. Its aluminium construction makes it lightweight and easy to use.



ITEM	CODE
Paddle Roller 50mm x 15mm	014000
Paddle Roller 70mm x 21mm	014002
Paddle Roller 70mm x 45mm	014006
Paddle Roller 100mm x 15mm	014001
Paddle Roller 140mm x 21mm	014004
Paddle Roller 140mm x 45mm	014007
Paddle Roller 225mm x 21mm	014005
Paddle Roller 225mm x 45mm	014008

WASHER ROLLERS

Easy to use tool with reduced spray back. These tools are good for detail work and provide an efficient air removal as well as good consolidation.



ITEM	CODE
Washer Roller 50mm x 15mm	014032
Washer Roller 50mm x 25mm	014036
Washer Roller 70mm x 15mm	014033
Washer Roller 70mm x 25mm	014064
Washer Roller 100mm x 15mm	014034
Washer Roller 100mm x 25mm	014037
Washer Roller 140mm x 15mm	014035

FIN ROLLERS

Easy to use tool with reduced spray back. These tools are good for detail work and provide an efficient air removal as well as good consolidation.



ITEM	CODE
Fin Roller 35mm x 12mm	014019
Fin Roller 50 mm x 6mm	014017
Fin Roller 70mm x 22mm	014024
Fin Roller 75mm x 12mm	014020
Fin Roller 100mm x 12mm	014021
Fin Roller 140mm x 12mm	014023
Fin Roller 140mm x 22mm	014025

PLASTIC FIN ROLLERS

Plastic rollers have excellent non stick properties, which make them very easy to clean. This tool is non marking and usually used by end users, for whom the finish is the top priority.



ITEM	CODE
Plastic Fin Roller 35mm x 12mm	014048
Plastic Fin Roller 50 mm x 12mm	014049
Plastic Fin Roller 70mm x 10mm	014047
Plastic Fin Roller 70mm x 15mm	014051
Plastic Fin Roller 100mm x 12mm	014050
Plastic Fin Roller 140mm x 12mm	014062
Plastic Fin Roller 140mm x 20mm	014052



DISC ROLLER

Plastic rollers have excellent non stick properties, which make them very easy to clean. Designed to remove entrapped air from sharp corners.

ITEM	CODE
Disc Roller (40mm diameter)	014053



SPRING ROLLERS

Perfect for consolidating on contoured areas, made from a steel spring enabling it to flex in any direction.

ITEM	CODE
Spring Roller 75mm x 25mm	014054
Spring Roller 135mm x 38mm	014055

BOLT ROLLERS

These are the tools with the smallest diameters and provide very good air removal and a smooth finish. Perfect tool for perfect coatings everywhere, even in the corners! It is the best tool for detailed work and is very much appreciated by its users.



ITEM	CODE
Bolt Roller 25mm x 6mm	014026
Bolt Roller 40mm x 6mm	014027
Bolt Roller 50mm x 6mm	014028
Bolt Roller 50mm x 12 mm	014057
Bolt Roller 70mm x 10mm	014030
Bolt Roller 100mm x 15mm	014031

BRISTLE ROLLERS

Multi use tool providing excellent air removal, precise smooth finish and therefore an excellent consolidating action.



ITEM	CODE
Bristle Roller Handle 50mm	014038
Bristle Roller Handle 100mm	014039
Bristle Roller Handle 150mm	014040
Bristle Roller Refill 50mm x 22mm	014041
Bristle Roller Refill 50mm x 28mm	014042
Bristle Roller Refill 100mm x 22mm	014043
Bristle Roller Refill 100mm x 28mm	014044
Bristle Roller Refill 150mm x 22mm	014045
Bristle Roller Refill 150mm x 28mm	014046

Containers/Mixing



PLASTIC BUCKETS

High consistent quality container manufactured with top quality food grade polymers. Containers nest together easily de-nest when required.

ITEM	CODE
565ml White Tub with Lid	010012
1 Ltr Bucket	010000
2.5 Ltr Bucket	010002
5 Ltr Bucket	010004
10 Ltr Bucket	010006
25 Ltr Bucket	010008



BUCKET LIDS

Flex lid gives product security combined with easier removal and replacement.

ITEM	CODE
1 Ltr Bucket Lid	010001
2.5 Ltr Bucket Lid	010003
5 Ltr Bucket Lid	010005
10 Ltr Bucket Lid	010007
25 Ltr Bucket Lid	010009



CALIBRATED PAPER CUPS

Waxed Calibrated Paper cups, perfect for smaller mixes.

ITEM	CODE
Calibrated Paper Cup 8oz / 250cc	027004
Calibrated Paper Cup 20oz / 600cc	027005



SYRINGES

Plastic syringes for injecting fluids

ITEM	CODE
5ml syringe	027006
10ml syringe	027007
20ml syringe	027008
50ml syringe	027009



15ML & 80ML CATALYST DISPENSERS

Safety squeeze catalyst dispensers.

- Sealable lid to prevent contamination and minimise Health & Safety issues.
- Single handed operation.
- Accurate volume measurement.
- Durable Polyethylene Construction.
- Can be set for automatic repeat volumes.

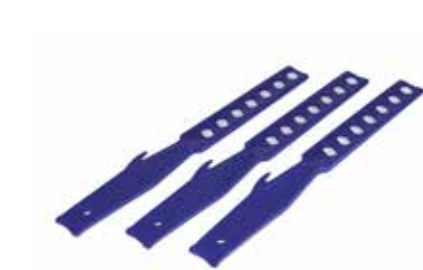
ITEM	CODE
15ml Catalyst Dispenser With Lid	027000
80ml Catalyst Dispenser With Lid	027001



PAINT TRAYS

To fit rollers up to 9" long.

ITEM	CODE
9" Paint Tray	010010



PLASTIC MIXING STICK

Lightweight plastic mixing stick. Approx 12" Long.

ITEM	CODE
12" Plastic Mixing Stick	027002



WOODEN MIXING STICKS

Wooden tongue depressors, approx 6" long, perfect for those smaller mixes.

ITEM	CODE
6" Wooden Mixing Sticks (100)	027003

Cutting Tools



KEVLAR SHEARS

10" Serrated Kevlar shear, suitable for cutting Kevlar & glassfibre.

ITEM	CODE
Kevlar Shears	021003



FIXED TRIMMING BLADE

Fixed trimming blade sold in boxes of 100.

ITEM	CODE
Fixed Trimming Blades	021010



FIXED TRIMMING KNIFE

Fixed trimming knife for cutting glassfibre.

ITEM	CODE
Fixed Trimming Knife	021009



CSM ROTARY CUTTER

Wheel cutter used for cutting CSM, blade of 45mm diameter.

ITEM	CODE
CSM Rotary Cutter	021002



CSM ROTARY CUTTER BLADE

Replacement 45mm blades.

ITEM	CODE
CSM Rotary Cutter Blade	021001

DOME END ROUTER 44/60 GRIT

Tool length 60mm, with a 6mm shank, 6mm diameter & a 19mm coating of diamond.

- High grade diamond.
- 44/60 grit.
- Nickel coated blank.
- Hardened shank.



ITEM	CODE
Dome End Router 44/60 Grit	021008



DIAMOND WHEELS

- High grade diamond.
- 44/60 grit.
- 5mm wrapover.
- Nickel coated blank.
- Hardened, ground and balanced blank

ITEM	CODE
Diamond Wheel 100mm x 16mm	021005
Diamond Wheel 100mm x 22mm	021004



DIAMOND WHEEL (SIDE SPOKED)

- High grade diamond.
- 44/60 grit.
- 5mm wrapover.
- Nickel coated blank.
- Hardened, ground and balanced blank.

ITEM	CODE
Diamond Wheel (With Side Spokes) 100mm x 16mm	021006
Diamond Wheel (With Side Spokes) 100mm x 22mm	021007

Drum Equipment



DRUM STANDS

- Static with no wheels.
- Static with 4 wheels for easy drum movement.
- 8 Wheels for ease of rotation and movement of stand.

ITEM	CODE
Drum Stand (Static)	028000
Drum Stand (4 Wheels on Top)	028001
Drum Stand (4 Wheels on Base)	028002
Drum Stand (8 Wheels Top & Base)	028003



2" RESIN TAP

Robust cast iron plugless tap has a 2inch bsp thread suitable for dispensing viscous liquids from 240 litre drum.

ITEM	CODE
2" Resin Tap	028004



BRASS ACETONE TAP

Acetone tap with 3/4 " BSP thread.

ITEM	CODE
3/4" Brass Acetone Tap	028005



NYLON ACETONE TAP

Nylon Acetone tap with 3/4 " BSP thread.

ITEM	CODE
3/4" Nylon Acetone Tap	028009



BUNG REMOVER

Drum bungs can be removed using a Drum Bung Remover.

ITEM	CODE
Bung Remover	028006

DRUM SPANNER

Spanner for removing drum taps from 45 gallon barrels.



ITEM	CODE
Drum Tap Spanner	028008



UNIVERSAL DRUM KEY

Industry Standard Universal Drum Key

ITEM	CODE
Universal Drum Key	028007

Fillers



FUMED SILICA

This is the thixotrope which makes the resin and gelcoat non drip, thixotropic resins will have between 0.75 - 1% by weight included in the formulation and gelcoats around 2.5%. It's not that easy to disperse this without a mechanical stirrer - it will go in if you mix it in by hand but it won't develop its full effect if not well mixed.

ITEM	CODE
FUMED SILICA AS200 (10 kg)	024007



FILLITE 52/75

Lightweight filler consisting of tiny hollow microspheres. Ideal for initial filling of large areas and easier than talc to sand.

ITEM	CODE
FILLITE 52/75 (20 kg)	024004

Frames



3" FRAMES

Quality 3" nut and bolt roller handle

ITEM	CODE
3" Nut and Bolt Roller Handle	015019



4" FRAMES

To fit all our 4" mini rollers and jumbo mini rollers. The frame is made from 6mm diameter steel.

ITEM	CODE
4" Handle (11" long)	015010
4" Handle (21" long)	015021



6" FRAMES

Frames are made of 6mm diameter steel, suitable for use with all push on 6" refills.

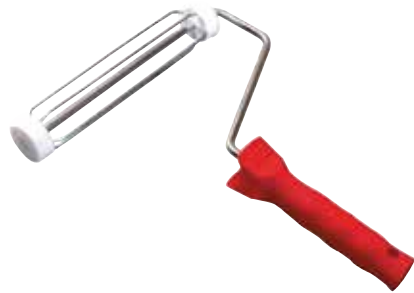
ITEM	CODE
6" Handle	015011



7" FRAMES

Frames are made of 8mm diameter steel, suitable for use with all push on 7" refills.

ITEM	CODE
7" Handle	015012



7" X 1½" CAGE HANDLE

7" x 1½" Plastic handle push on cage frame.

ITEM	CODE
7" Cage Handle	015027



10" FRAMES

Frames are made of 8mm diameter steel. Suitable for use with all push on 10" refills.

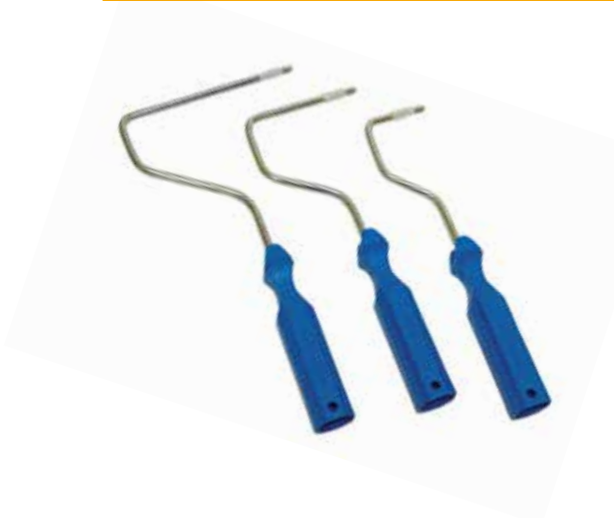
ITEM	CODE
10" Handle	015020



ALUMINIUM EXTENSION POLE

Fluted aluminium construction, extendable to 6ft. Strong but lightweight. Twist lock mechanism screw thread, supplied with a push fit adaptor for use with all frames.

ITEM	CODE
Aluminium Extension Pole	015014



BRISTLE HANDLES

Bristle handle, suitable for use with all bristle roller refills.

ITEM	CODE
50mm Bristle Handle	014038
50mm x 22mm Bristle Refill	014041
50mm x 28mm Bristle Refill	014042
100mm Bristle Handle	014039
100mm x 22mm Bristle Refill	014043
100mm x 28mm Bristle Refill	014044
150mm Bristle Handle	014040
150mm x 22mm Bristle Refill	014045
150mm x 28mm Bristle Refill	014046

Gloves



HOUSEHOLD GLOVE

Household Latex Gloves are a classic, staple product. These versatile and distinctive gloves can be used for both industrial and household cleaning as well as food handling tasks.

- Medium weight
- Beaded cuff
- Patterned grip palm
- Flock liner
- EN388

ITEM	CODE
Household Glove (Small)	017006
Household Glove (Medium)	017007
Household Glove (Large)	017008



HEAVYWEIGHT RUBBER GLOVES

Chemical resistant black heavyweight rubber glove. With a patterned palm for added wet and dry grip, these versatile gloves are ideal for industrial cleaning work.

- Patterned grip palm
- Flock liner
- EN388 & EN374
- Heavyweight

ITEM	CODE
Heavyweight Rubber Glove (Small)	017001
Heavyweight Rubber Glove (Medium)	017002
Heavyweight Rubber Glove (Large)	017003
Heavyweight Rubber Glove (X-Large)	017004
Heavyweight Rubber Glove (XX-Large)	017005



PALM COATED GLOVES

Ideal for dry or slightly oily applications.
Coated palm and fingers.

ITEM	CODE
103-MAT Matrix F Grip Glove Size 9 (Large)	017030
104-MAT Matrix F Grip Glove Size 10 (X-Large)	017031



CANADIAN RIGGER GLOVES

Split leather with knuckle protection.

ITEM	CODE
Canadian Rigger Glove	017021



LIGHTLY POWDERED LATEX GLOVES

Lightly powdered latex disposable ambidextrous gloves are manufactured from 100% natural latex to conform to the hand for increased comfort and dexterity, reducing finger fatigue. The fingers and palms are slightly textured to offer excellent grip. The powder and beaded cuffs aid application and reduce the risk of tearing.

ITEM	CODE
Lightly Powdered Latex Gloves (Small)	017009
Lightly Powdered Latex Gloves (Med)	017010
Lightly Powdered Latex Gloves (Large)	017011
Lightly Powdered Latex Gloves (X-Large)	017012



POWDER FREE LATEX GLOVES

Powder Free latex disposable ambidextrous gloves are manufactured from 100% natural latex to conform to the hand for increased comfort and dexterity, reducing finger fatigue. The fingers and palms are slightly textured to offer excellent grip. The beaded cuffs aid application and reduce the risk of tearing.

ITEM	CODE
Powder Free Latex Gloves (Small)	017013
Powder Free Latex Gloves (Medium)	017014
Powder Free Latex Gloves (Large)	017015
Powder Free Latex Gloves (X Large)	017016



POWDER FREE NITRILE GLOVES

- Ideal for latex allergy sufferers - 100% LATEX FREE.
- Offers the user excellent protection for light general use, protects hand against contamination, dirt and potential irritants in low risk situations.
- Conforms to AQL 4.0, CE marked for Minimal Risk, in compliance with BS EN 420.

ITEM	CODE
Powder Free Nitrile Gloves (Small)	017017
Powder Free Nitrile Gloves (Medium)	017018
Powder Free Nitrile Gloves (Large)	017019
Powder Free Nitrile Gloves (X-Large)	017020



LIGHTWEIGHT KETONE RESISTANT GLOVE

Exceptional protection against a wide range of aggressive solvents and ketones.

ITEM	CODE
Ketochem Gloves (Large)	017037
Ketochem Gloves (X-Large)	017040
Ketochem Gloves (XX-Large)	017041

Hand Cleaner/Wipes



RESIN WIPES

Removes Resin, Gelcoat, Paints, Sealants & Adhesives from Hands, Tools & Surfaces.

- Pleasant to use - Clean fresh Citrus Smell.
- Greatly reduces health & safety issues.
- Can remove almost anything from hands.
- Does not re-deposit material back onto surfaces.
- Perfect for site work (no hazardous chemicals required).

ITEM	CODE
Resin Wipes	031004



PASTE HAND CLEANER

Paste hand cleaner with beads.

ITEM	CODE
Paste Hand Cleaner (1 Ltr)	031000
Paste Hand Cleaner (5 Ltrs)	031001
Paste Hand Cleaner (25 Ltrs)	031002



LIQUID HAND CLEANER

Liquid hand cleaner with beads.

ITEM	CODE
Liquid Hand Cleaner (5 Ltrs)	031003

Laminating Rollers



3" X 1½ " POLYESTER ROLLER REFILL

Knitting of the long fibres in this roller refill will lead to some fibre loss.

- 48mm diameter acetone resistant core
- 18mm polyester fibres knitted into backing

ITEM	CODE
3" x 1½ " Polyester Roller Refill	015018

4" MINI BLUE STRIPE ROLLER REFILL

This mini roller is made on 17mm diameter thermally bonded, acetone resistant core. Made from 13mm pile 100% polyamide fibres woven into its backing. The fibres are thermotreated to give a crimped effect which helps the fibres pick up, hold and distribute the maximum amount of material. In addition the backing of this high end fabric is treated to reduce even further the possibility of fibre loss in use.

ITEM	CODE
4" Mini Blue Stripe Roller Refill	015000



4" JUMBO BLUE STRIPE ROLLER REFILL

This jumbo mini roller is made on 30mm diameter thermally bonded, acetone resistant core. Almost twice the diameter of a standard mini roller for faster working. Made from 13mm high 100% polyamide fibres woven into its backing. The fibres are thermotreated to give them a 'crimped' effect which helps the fibres pick up, hold and distribute the maximum amount of material. In addition the backing of this high end fabric is treated to reduce even further the possibility of fibre loss in use.

ITEM	CODE
4" Jumbo Blue Stripe Roller Refill	015001



4" SUPERFINE FOAM ROLLER REFILL

Premium product at low price, providing excellent results. Ideal for application of 2 pack epoxy resins and for paints and varnishes.

- 15mm diameter internal glued core
- 58-60 Kg per cubic meter foam
- Fits single steel bar (no nuts/washers)

ITEM	CODE
4" Superfine Foam Roller Refill	015002



4" MOHAIR REFILL

This mini roller is made on 17mm diameter thermally bonded, acetone resistant core. Made from 100% pure new wool this 4mm pile height fabric is premium woven fabric specially designed for the application of gel coat. Very low fibre loss, combined with its pale cream colour and dense pure wool fibres, makes this our top recommendation.

ITEM	CODE
4" Mohair Refill	015003





6" & 7" MOHAIR REFILL

This roller is made on 41mm diameter, polypropylene thermally bonded, acetone resistant core. Made from a velvet like very short pile polyester fibre, woven into its backing for strength. Will give a bubble free and fluff free finish when used for gelcoat application.

ITEM	CODE
6" Mohair Refill	015005
7" Mohair Refill	015024



6" BLUE STRIPE ROLLER REFILL

This roller is made on a 41mm diameter, polypropylene thermally bonded, acetone resistant core. Made from 100% polyamide fibres woven into its backing, the fibres are thermotreated to give them a crimped effect which helps the fibres pick up, hold and distribute the maximum amount of material. In addition the backing of this high end fabric is treated to reduce even further the possibility of fibre loss in use.

ITEM	CODE
6" Blue Stripe Roller Refill	015004



6" & 7" LAMBSWOOL REFILL

This roller is made on 48mm diameter, polypropylene thermally bonded, acetone resistant core. Made from 22mm pile pale cream polyester fibres knitted into its backing. (Long 22mm polipile polyester fibre has to be knitted, whereas, very short pile polyester fibre - such as our Dakota, can be woven).The knitting fixes the fibres less securely than weaving, so some fibre loss is to be expected.

ITEM	CODE
6" Lambswool Refill	015006
7" Lambswool Refill	015007



7" CAGE REFILL

Long pile polyester roller refill.

ITEM	CODE
7" Cage Refill	015028



7" & 10" BLUE STRIPE ROLLER REFILL

This roller is made on 48mm diameter, polypropylene thermally bonded, acetone resistant core. Made from 100% polyamide fibres, woven into its backing. The fibres are thermotreated to give them a crimped effect which helps the fibres pick up, hold and distribute the maximum amount of material. In addition the backing of this high end fabric is treated to reduce even further the possibility of fibre loss in use.

ITEM	CODE
7" Blue Stripe Roller Refill	015008
10" Blue Stripe Roller Refill	015009

Mould Treatment & Preparation



PLASTIC FILLET & FILLET RUBBER TOOLS

The perfect tool to apply wax fillets & plasticine to moulds & patterns to form radii.

ITEM	CODE
Metal Fillet Rubber 6mm x 9mm	016008
Metal Fillet Rubber 12mm x 15mm	016010
Metal Fillet Rubber 19mm x 25mm	016011
Metal Fillet Rubber Set of 3	016012
Plastic Fillet Rubber 6mm x 10mm	016003
Plastic Fillet Rubber 12mm x 15mm	016004
Plastic Fillet Rubber 20mm x 25mm	016005
Plastic Fillet Rubber Set of 3	016006



PLASTIC WEDGES

Plastic wedges are an ideal and professional method for demoulding the finished lay up without causing damage to the “Gelcoat”.

ITEM	CODE
Rigid Plastic Wedge 100mm x 38mm	016042
Rigid Plastic Wedge 130mm x 55mm	016043
Rigid Plastic Wedge 175mm x 75mm	016045
Rigid Plastic Wedge 215mm x 38mm	016044
Flexible Plastic Wedge 100mm x 38mm	016047
Flexible Plastic Wedge 130mm x 55mm	016048
Flexible Plastic Wedge 175mm x 75mm	016050
Flexible Plastic Wedge 215mm x 38mm	016049



SHEET WAX

Adhesive backed, thermally stable (to 265°F/131°C), thickness tolerance within .001”. Adds material thickness to flat or contoured surfaces, not disturbed by exotherm of casting resins or plasters. Used widely in production of plastics, press tools, patterns, checking fixtures etc.

ITEM	CODE
Sheet Wax 1.00mm (8 sheets per box)	016014
Sheet Wax 2.00mm (8 sheets per box)	016015
Sheet Wax 3.00mm (4 sheets per box)	016016
Sheet Wax 4.00mm (4 sheets per box)	016017
Sheet Wax 5.00mm (3 sheets per box)	061018
Sheet Wax 6.35mm (2 sheets per box)	016019



NEWPLAST

Newplast is a non-drying, non-setting modeling material. It is virtually identical to plasticine and can be re-used many times.

ITEM	CODE
Newplast (White) 500g	016002



YELLOW WAX FILLER (PELIKAN NAKIPLAST)

Void and Joint filler for sheet wax. Pelikan Nakiplast contains beeswax and is very easy to use, stays soft and workable. And does not stain hands.

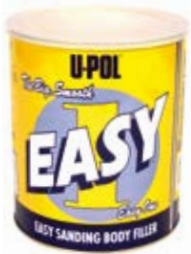
ITEM	CODE
Yellow Wax Filler (2 x 650g)	016000



WAX FILLET

Wax fillets are easily applied to straight or irregularly shaped surfaces because of the flexibility. Produce and maintain accurate radii regardless of application conditions.

ITEM	CODE
Wax Fillet 1/8” (100 ft)	016020
Wax Fillet 3/16” (100 ft)	016021
Wax Fillet 1/4” (100 ft)	016022



EASYONE BODY FILLER

Two-component polyester filler used for the filling of holes and imperfections.

ITEM	CODE
Easyone Body Filler (3kgs)	016013



BPO HARDNER

For use with polyester body fillers.

ITEM	CODE
BPO Hardner White (40 Grams)	0160523
BPO Hardner Red (40 Grams)	016052



BODY FILLER APPLICATOR

Body filler applicators 105mm x 70mm.

ITEM	CODE
Body Filler Applicator (pack of 10)	016001

Personal Protection



ECONOMY P2 VALVED CUPPED DUST MASK

Protects against fine hazardous dust particles and light welding fumes. Valved for easier exhalation.

- NPF Nominal Protection Factor.
- APF Assigned Protection Factor.
- Protection Level: 12 x NPF, 10 x APF.

ITEM	CODE
Respair Economy P2 Valved Cupped Dust Mask (Pack of 10)	019007



3M 4251 HALF MASK RESPIRATOR

Protection against organic gases with a boiling point above 65°C and good warning properties - 10 x WEL (Workplace Exposure Limits) or 1000 p.p.m. whichever is the lower. Particulates (water and oil based) - 10 x WEL.

Provides respiratory protection against fine dusts, oil and water-based mists. 3M Cool Flow valve reduces heat build up to offer comfortable protection, particularly in hot and humid conditions. Reliable, effective protection against fine particulates. Durable collapse-resistant inner shell. Excellent fit over a wide range of face sizes provided by convex shape, nose clip and twin-strap. Comfortable, lightweight off-the-face design.

- Type FFA1P2D.
 - Approved to EN 405:2001
 - Assigned Protection Factor 10 for Gas and Particulates.
- NPF Nominal Protection Factor.
 - APF Assigned Protection Factor.
 - Protection Level: 12 x NPF, 10 x APF.

ITEM	CODE
3M 4251 Organic Vapour Respirator	090012



SAFETY GLASSES

Lightweight, durable glasses in a modern wraparound style. Hard Coated for improved scratch resistance. Complies with the requirements of the European Standard EN166:2001 "Personal Eye Protection" EN 166 1 F. Suitable for continued use (Class 1 optical). Low energy impact (resists a 6mm, 0.86g ball bearing at 45 m/s).

ITEM	CODE
Safety Glasses	090011



PVC APRON

White PVC Apron, standard width 90cms, length 122cms, includes Neck / Waist cord.

ITEM	CODE
PVC Apron	090000



TYVEK RESIN PROOF COVERALLS

The Dupont™ Tyvek-Classi[®]c hooded disposable coveralls have an elasticated hood, waist, cuffs and ankles.

- Conform to EN1149-1 Category III.
- Type 5 & 6 Provides protection against: Dry particulate hazards and water based chemicals.

ITEM	CODE
Tyvek Resin Proof Coverall (Med)	090001
Tyvek Resin Proof Overall (Large)	090002
Tyvek Resin Proof Overall (X-Large)	090003
Tyvek Resin Proof Overall (XX-Large)	090004



RECLAIMED BOILER SUITS

Second grade boiler suits - miscellaneous colours.

ITEM	CODE
Reclaimed Boiler Suit (Small 92-100 cm chest)	090005
Reclaimed Boiler Suit (Medium - 108 cm chest)	090006
Reclaimed Boiler Suit (Large - 116 cm chest)	090007
Reclaimed Boiler Suit (X Large - 124 cm chest)	090008
Reclaimed Boiler Suit (XX Large - 132 cm chest)	090009
Reclaimed Boiler Suit (XXX Large - 140 cm chest)	090010



EMERGENCY EYE WASH

Used to totally irrigate the eye in the event of an emergency.

ITEM	CODE
Emergency Eye Wash 500ml	090014

Pigment Paste



PIGMENT PASTE

The purpose of a Polyester Pigment is to simply colour a resin or gelcoat. To add pigment, use a ratio of 5-7% for dark colours and up to but never exceeding 10% for lighter colours.

Ranges Available

- BS :4800 Range.
- Ral.

Polishing Cloths



COLOURED RAG

General Purpose Coloured Rag (T-shirt /Sweatshirt).

ITEM	CODE
Coloured Rag (10 kg)	020001



COTTON RAG

General Purpose White cotton rag.

ITEM	CODE
Cotton Rag (10kg)	020005



STOCKINETTE

100% Pure cotton. Lint free.

ITEM	CODE
Stockinette (800grms)	020003



NEXUS POLISHING CLOTH

Soft non-woven polishing cloth.

- Solvent resistant.
- Low linting.
- Very high yield.

ITEM	CODE
Polishing Cloth (4 kg)	031005



TACK CLOTH

Tack rags are a cloth impregnated with adhesive which attracts every spec of dirt.

ITEM	CODE
Tack Cloth	020004



WHITE HOSIERY

Soft white T-Shirt material.

ITEM	CODE
White Hosiery (10 kg)	020002

Release Agents



PVA RELEASE AGENT

Mould Release Agent is a liquid, water based solution of Poly Vinyl Alcohol which facilitates the easy removal of GRP mouldings from any type of mould. It is useful in providing an extra barrier on top of silicone free wax release agents between the mould and polyester resins used in the moulding process, especially where fast moulding cycles are in use.

ITEM	CODE
Glossy PVA Release Agent (Blue) 5 Ltrs	016033
Glossy PVA Release Agent (Clear) 5 Ltrs	016034



AXEL XTEND CX500 MOULD CLEANER

CX500 is a general purpose cleaner, it very lightly removes top surface build up or debris.

ITEM	CODE
CX500 Mould Cleaner (US Gal)	016056



AXEL XTEND 19ZAM

Semi-permanent release agent for closed moulding or non-gelcoated parts.

ITEM	CODE
19ZAM Semi Permanent Release Agent (US Gal)	016054



AXEL XTEND 818

Semi permanent release agent for gelcoated parts.

ITEM	CODE
818 Semi Permanent Release Agent (US Gal)	016053



AXEL XTEND XTR

Mould sealer.

ITEM	CODE
XTR Semi Permanent Mould Sealer (US Gal)	016057



1000L

Hi-Low Liquid Wax.

ITEM	CODE
HI-LOW LIQ WAX 1000L AS (US GAL)	016039



PASTE-WIZ

Paste mould release agent for wood, plaster, composite and metal moulds. Effectively seals the porous areas of mould surfaces resulting in smoother surfaces of moulded part. High-temperature paste wax for moulding composites.

ITEM	CODE
Paste-Wiz Mould Release Wax	016070



1004/23

Specifically designed for brush gel applications. Reduces incidence of fish eyeing.

ITEM	CODE
Release Wax 1004/23 (14.5oz)	016036



1000P

Standard mould release wax.

ITEM	CODE
1000P (14.5oz)	016035



333MR

Blue paste release wax. Hard surface wax - high temp.

ITEM	CODE
333MR (14.5oz)	016037



68 EDGE WAX

Edge and flange wax.

ITEM	CODE
EDGE WAX 68 (US GAL)	016040



86 SEAL KOTE

Seal coat to seal porosity.

ITEM	CODE
SEAL KOTE 86 (US GAL)	016051



69 STRIPPER

Liquid release and stripper. Relieves wax build up - does not remove styrene burns.

ITEM	CODE
LIQ REL & STRIPPER 69 AS (US GAL)	016038

Sealers



G4 DAMPSEAL

G4 seal damp out of concrete, brick, stone and wood with a non-porous plastic coating that is hard wearing, tough but flexible. Being moisture cured it can be applied in poor conditions, down to 0 degrees centigrade and in high humidity. Three coats can be applied in a day to provide a good base for further decorations. For scenic use it is widely used to seal moisture out from moulds prior to laying up glass fibre. On boats it is useful for priming those areas which are impossible to completely dry out like patches on elm keels and deadwood and in joins between timber and glass fibre where moisture has penetrated. It is a very impressive product. 1kg will cover approximately 2 sq metres with three coats.

ITEM	CODE
G4 Damp Seal (1 kg)	016030
G4 Damp Seal (5 kg)	016031

Tapes



MASKING TAPE

Masking tape is ideal for use in oven and dry cycles when the temperature does not exceed 80°C. Flexibility and good adhesion means it conforms to curves and contours and many surface types including the most common paints & lacquers leaving no adhesive residue.

- Support oven/dry cycles when temperature does not exceed 80°C.
- Conforms to contours, irregular surfaces and shapes.
- Compatible with most common paints and lacquers.

ITEM	CODE
Masking Tape 25mm x 50mtr	019009
Masking Tape 50mm x 50mtr	019010



FIBREGLASS TAPE

This is simple woven cloth in tape form supplied in roll widths of 25mm to 150mm weighing 175g m². Open weave is the most common and easiest to saturate with resin but close weave holds its shape better. Used as a convenient repair bandage.

ITEM	CODE
Fibreglass Tape 25mm x 50mtr (Roll)	019002
Fibreglass Tape 50mm x 50mtr (Roll)	019003
Fibreglass Tape 75mm x 50mtr (Roll)	019004
Fibreglass Tape 100mm x 50mtr (Roll)	019005
Fibreglass Tape 150mm x 50mtr (Roll)	019006



7 BONDING SOLUTIONS



“Setting the standard in distribution is
about investment in the best people
and the best technical support.”

7 / BONDING SOLUTIONS

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Adhesives

GRP Solutions adhesives portfolio has been enhanced with the addition of the Bondloc range of Structural and Engineering adhesives and Sealants.

ISO 9001:2015 accredited Bondloc UK Ltd are a British Manufacturer of Engineering and industrial Adhesives with over 25 years' experience in Adhesive manufacturing. Bondloc products are used in the most demanding applications including Automotive, Agriculture, Marine, Engineering and Heavy Plant.



Range

Anaerobic Adhesives

B222 - SCREWLOCK



DESCRIPTION	SPECIFICATION
A low strength threadlocker designed for small fasteners, where vibration loosening prevention and non-leakage through threaded fastening is required Melt Rate: up to 2.0kg/hour.	<ul style="list-style-type: none">• Colour - PURPLE• Viscosity - 1,200 cps• Breakaway Strength - 6Nm• Prevail Torque - 3Nm• Min / Max Temp - -55°C - +150°C• Size 10ml, 25ml, 50ml, 250ml

B242 - NUTLOCK



DESCRIPTION	SPECIFICATION
A medium strength threadlocker designed for the locking and sealing of threaded fasteners. Used on gear box bolts, driveshafts, bearing cover cap screws.	<ul style="list-style-type: none">• Colour - BLUE• Viscosity - 1,200cps• Breakaway Strength - 16Nm• Min / Max Temp - -55°C - +150°C• Size 10ml, 25ml, 50ml, 250ml

B243 - NUTLOCK



DESCRIPTION	SPECIFICATION
An oil tolerant, medium strength threadlocker designed for direct application onto "as received parts" where an oily film exists or where contamination is a problem.	<ul style="list-style-type: none">• Colour - BLUE• Viscosity - 1,800 cps (Thix.)• Breakaway Strength - 25Nm• Prevail Torque - 5Nm• Min / Max Temp - -55°C - +180°C• Size 10ml, 25ml, 50ml, 250ml

B270 - STUDLOCK



DESCRIPTION	SPECIFICATION
A high strength threadlocker designed for locking studs up to M80, sealing against leakage and corrosion.	<ul style="list-style-type: none">• Colour - GREEN• Viscosity - 500cps• Breakaway Strength - 33Nm• Prevail Torque - 33Nm• Min / Max Temp - -55°C - +180°C• Size 10ml, 25ml, 50ml, 250ml

B271 - STUDLOCK



DESCRIPTION	SPECIFICATION
A high strength threadlocker designed for locking studs up to M80, ideal for permanent threaded assemblies. Chemical, fuel and oil resistant.	<ul style="list-style-type: none">• Colour - RED• Viscosity - 500cps• Breakaway Strength - 33Nm• Prevail Torque - 33Nm• Min / Max Temp - -55°C - +180°C• Size 10ml, 25ml, 50ml, 250ml

B290 - PENETRATING THREADLOCK



DESCRIPTION	SPECIFICATION
A very low viscosity threadlocker, that has a wicking action to search the voids in assemblies and casting components. Cures in the absence of air on close fitting metal parts.	<ul style="list-style-type: none">• Colour - GREEN• Viscosity - 15 - 20cps• Breakaway Strength - 12Nm• Min / Max Temp - -55°C - +150°C• Size 10ml, 25ml, 50ml, 250ml

B510 - GASKET MAKER



DESCRIPTION	SPECIFICATION
A high temperature, form in-place gasket maker for all types of metal parts, sealing and resisting temperatures above 200°C.	<ul style="list-style-type: none">• Colour - PINK• Viscosity - Paste• Shear Strength - <10N/mm²• Min / Max Temp - -55°C - +230°C• Gap Fill - 0.25mm• Fixture Time - <25 mins• Size 50ml, 65ml, 250ml

B515 - FLEXIBLE GASKET



DESCRIPTION	SPECIFICATION
Flange Sealant is a flexible, gasketing material for use on rigid machined flanges. Cures in absence of air. Eliminates preformed, pre-cut, paper, rubber and cork gaskets.	<ul style="list-style-type: none">• Colour - PURPLE• Viscosity - Paste• Shear Strength - 6N/mm²• Min / Max Temp - -55°C - +150°C• Gap Fill - 0.3mm• Fixture Time - <35 mins• Size 50ml, 65ml, 250ml

B518 - FLEXIBLE GASKET



DESCRIPTION	SPECIFICATION
Medium strength, flexible gasketing material. Recommended for use on rigid iron, steel and aluminium flanges e.g. aluminium gearbox and engine castings.	<ul style="list-style-type: none">• Colour - RED• Viscosity - 800,000 - 3,750,000cps (Thix.)• Shear Strength - 8N/mm²• Min / Max Temp - -55°C - +150°C• Gap Fill - 0.25mm• Fixture Time - 4hrs• Size 50ml, 65ml, 250ml

B542 - HYDRAULIC THREAD SEALANT



DESCRIPTION	SPECIFICATION
This medium strength sealant is used for hydraulic valves, threaded couplings, adaptors, quick disconnect parts, compression fittings and vibration proofing joints.	<ul style="list-style-type: none">• Colour - BROWN• Viscosity - 600 - 800cps• Breakaway Strength - 18Nm• Prevail Torque 10Nm• Min / Max Temp - -55°C - +150°C• Max Thread Size - M26• Fixture Time - 20mins• Size 10ml, 25ml, 50ml, 250ml

B574 - INSTANT GASKET



DESCRIPTION	SPECIFICATION
Instant gasket former making almost any size and shape of gasket, replacing paper, cork, etc. Ideal for gearbox sealing, pump flanges, transmission assemblies, cover plates on tanks, cam shaft sealing and bearing gaps.	<ul style="list-style-type: none">• Colour - ORANGE• Viscosity - 50,000cps• Breakaway Strength - 8Nm• Min / Max Temp - -55°C - +150°C• Gap Fill - 0.3mm• Fixture Time - <30mins• Size 50ml, 65ml, 250ml

B577 - PIPESEAL



DESCRIPTION	SPECIFICATION
Seals all types of threaded connections. Good chemical/ solvent resistance to ethanol, motor oil, unleaded petrol, acetone and brake fluid.	<ul style="list-style-type: none">• Colour - YELLOW• Viscosity - 24,000 - 80,000cps (Thix.)• Breakaway Strength - 11Nm• Min / Max Temp - -55°C - +180°C• Fixture Time - <15mins• Size 50ml, 65ml, 250ml

B601 - HIGH STRENGTH RETAINER



DESCRIPTION	SPECIFICATION
Securing all types of cylindrical parts, such as bearings, gears, splines, pulleys, keyways and set screws. Suitable for press and slip fits.	<ul style="list-style-type: none">• Colour - GREEN• Viscosity - 100 - 150cps• Breakaway Strength - >20Nm• Min / Max Temp - -55°C - +150°C• Gap Fill - 0.2mm• Fixture Time - 15mins• Size 10ml, 25ml, 50ml, 250ml

B603 - OIL TOLERANT RETAINER



DESCRIPTION	SPECIFICATION
Designed for direct use on "as received parts" such as those with protective films or where surrounding parts contamination is a problem in maintenance.	<ul style="list-style-type: none">• Colour - GREEN• Viscosity - 125cps• Shear Strength - 26N/mm²• Min / Max Temp - -55°C - +150°C• Gap Fill - 0.15mm• Fixture Time - 10mins• Size 10ml, 25ml, 50ml, 250ml

B620 - HIGH TEMPERATURE RETAINER



DESCRIPTION	SPECIFICATION
A high strength / high temperature retainer used in the securing of cylindrical fitting parts, such as sleeves into pump housings and bearings into auto transmissions. Particularly suitable where temperature resistance above 200°C is required.	<ul style="list-style-type: none">• Colour - GREEN• Viscosity - 8,500cps• Shear Strength - 26N/mm²• Min / Max Temp - -55°C - +230°C*• Gap Fill - 0.2mm• Fixture Time - 60mins• *Temp after heat cure at 175°C for 30min• Size 10ml, 25ml, 50ml, 250ml

B638 - HIGH STRENGTH RETAINER



DESCRIPTION	SPECIFICATION
For under load structural components such as cylindrical parts, keys, splines, even structural tubing with a close tolerance fit.	<ul style="list-style-type: none">• Colour - GREEN• Viscosity - 2,500cps• Shear Strength - 31N/mm²• Min / Max Temp - -55°C - +180°C• Gap Fill - 0.2mm• Fixture Time - <10mins• Size 10ml, 25ml, 50ml, 250ml

B641- BEARING RETAINER



DESCRIPTION	SPECIFICATION
A medium strength retainer used to secure all types and sizes of bearings, shafts and cylindrical parts which will require disassembly in the future.	<ul style="list-style-type: none">• Colour - YELLOW• Viscosity - 400 - 800cps• Shear Strength - 14N/mm²• Min / Max Temp - -55°C - +150°C• Gap Fill - 0.1mm• Fixture Time - <15mins• Size 10ml, 25ml, 50ml, 250ml

B648 - HIGH TEMPERATURE RETAINER



DESCRIPTION	SPECIFICATION
This high strength retainer secures all types of cylindrical parts as per B641 but with continuous working temperature up to 180°C.	<ul style="list-style-type: none">• Colour - GREEN• Viscosity - 500cps• Shear Strength - 26N/mm²• Min / Max Temp - -55°C - +180°C• Gap Fill - 0.15mm• Fixture Time - <15mins• Size 10ml, 25ml, 50ml, 250ml

B660 - METAL FILL RETAINER



DESCRIPTION	SPECIFICATION
A metallic/silver grey cream which is non-run and is used to fill and repair spin out, fretting and small imperfections on cylindrical parts. Metal fill will take up the wear on close fitting metal parts to enable temporary repairs.	<ul style="list-style-type: none">• Colour - SILVER/GREY• Viscosity - Paste• Shear Strength - 18N/mm²• Min / Max Temp - -55°C - +150°C• Gap Fill - 0.5mm• Fixture Time - <20mins• Size 50ml, 65ml, 250ml

Cyanoacrylate Adhesives

B390 - TWO PART INSTANT ADHESIVE



DESCRIPTION	SPECIFICATION
A 2-component, fast curing, gap filling cyanoacrylate with excellent bonding characteristics, suitable for a variety of substrates incl. plastics, rubbers and metals. It is designed to gap fill to 5mm. The gel prevents adhesive flow even on vertical surfaces. Also suited to bonding porous materials such as wood, paper, leather and fabric.	<ul style="list-style-type: none">• Colour - CLEAR• Viscosity - Gel• Base - Ethyl• Fixture Time (EPDM) - 90 - 150 seconds• Size 10g

B401 - GENERAL PURPOSE



DESCRIPTION	SPECIFICATION
Rapid bonding for a range of materials including metals, plastics, elastomers, wood, paper, leather and fabric.	<ul style="list-style-type: none">• Colour - CLEAR• Base - Ethyl• Viscosity - 90 - 120cps• Shear Strength - 15-25N/mm²• Fixture Time (EPDM) - <5 seconds• Size 20g, 50g, 500g

B403 - LOW ODOUR/LOW BLOOM



DESCRIPTION	SPECIFICATION
Low odour and low blooming properties that are particularly suitable for applications where vapour control is difficult.	<ul style="list-style-type: none">• Colour - CLEAR• Base - Alkoxy• Viscosity - 850 - 1,250cps• Shear Strength - 14 - 20N/mm²• Fixture Time (EPDM) - <20 seconds• Size 20g, 50g, 500g

B406 - RUBBER & PLASTIC BONDER



DESCRIPTION	SPECIFICATION
Designed for bonding rubbers, plastics and elastomeric materials. Ideal for O-rings and where a rapid fixture is required.	<ul style="list-style-type: none">• Colour - CLEAR• Base - Ethyl• Viscosity - 25 - 35cps• Shear Strength - 15 - 25N/mm²• Fixture Time (EPDM) - <5 seconds• Size 20g, 50g, 500g

B415 - METAL BONDER



DESCRIPTION	SPECIFICATION
A high viscosity methyl based product that is good for where high humidity is present. Designed for metal bonding, it can also be used for general purpose applications.	<ul style="list-style-type: none">• Colour - CLEAR• Base - Methyl• Viscosity - 1,200 - 1,800cps• Shear Strength - 15 - 25N/mm²• Fixture Time (EPDM) - <5 seconds• Size 20g, 50g, 500g

B454 - THIXOTROPIC CA GEL



DESCRIPTION	SPECIFICATION
A non drip gel designed for diffi cult to bond materials which require uniform stress distribution and strong tension/ shear strength. Ideal for vertical or overhead applications.	<ul style="list-style-type: none">• Colour - CLEAR• Base - Ethyl• Viscosity - Gel• Shear Strength - 15 - 25N/mm²• Fixture Time (EPDM) - <5 seconds• Size 20g

B460 - LOW ODOUR/LOW BLOOM



DESCRIPTION	SPECIFICATION
A low viscosity, low odour and low blooming adhesive which is particularly suitable for applications where vapour control is required.	<ul style="list-style-type: none">• Colour - CLEAR• Base - Alkoxy• Viscosity - 40 - 60cps• Shear Strength - 14 - 20N/mm²• Fixture Time (EPDM) - <15 seconds• Size 20g, 50g, 500g, Bulk

B480 - RUBBER TOUGHENED (BLACK)



DESCRIPTION	SPECIFICATION
A black cyanoacrylate, rubber toughened with increased flexibility and peel strength along with enhanced resistance to shock.	<ul style="list-style-type: none">• Colour - BLACK• Base - Ethyl• Viscosity - 350 - 450cps• Shear Strength - 15 - 25N/mm²• Fixture Time (EPDM) - <15 seconds• Size 20g, 50g, 500g, Bulk

B495 - GENERAL PURPOSE



DESCRIPTION	SPECIFICATION
Medium viscosity, general purpose suitable for bonding a range of materials including metals, plastics, elastomers, wood, paper, leather and fabric.	<ul style="list-style-type: none">• Colour - CLEAR• Base - Ethyl• Viscosity - 45 - 65cps• Shear Strength - 15 - 25N/mm²• Fixture Time (EPDM) - <5 seconds• Size 20g, 50g, 500g

B770 - CYANOACRYLATE PRIMER



DESCRIPTION	SPECIFICATION
Used to make polyolefin and other low energy surfaces suitable for bonding with Bondloc cyanoacrylate adhesives. It is only recommended for use with difficult to bond substrates such as: polyethylene, polypropylene, polytetrofluoroethylene (PTFE) and thermoplastic rubber materials.	<ul style="list-style-type: none">• Colour: Clear• Base: Heptane/Acetone• Viscosity - Liquid• Size 20g, 50g, 500g

B7455 - ACTIVATOR AEROSOL



DESCRIPTION	SPECIFICATION
Activator for the rapid curing of cyanoacrylates that deposits the correct balance of neutralising ions on the surface, stimulating attraction for the adhesive and preparing the surface for bonding.	<ul style="list-style-type: none">• Colour: Clear• Base: Solvent• Viscosity - Liquid• Size 200ml, 400ml

Sealants

B5180 - NON-SETTING GASKET



DESCRIPTION	SPECIFICATION
Non-cracking formulation ideal for engine gaskets, cylinder heads, water pumps, gear boxes, threaded assemblies, flanges and pipe joints.	<ul style="list-style-type: none">• Colour - BLUE• Base - Solvent• Viscosity - 5,000cps• Gap Fill - 0.5mm• Size 80ml, 200ml Power Can, 310ml

B5190 - FLEXIBLE GASKET



DESCRIPTION	SPECIFICATION
Can be used on all types of engine components withstanding constant temperatures up to 270°C and intermittent temperatures up to 350°C.	<ul style="list-style-type: none">• Colour - RED• Base - Solvent• Viscosity - 6,500cps• Gap Fill - 0.5mm• Size 80ml, 200ml Power Can, 310ml

B5299 - HIGH TEMPERATURE SILICONE



DESCRIPTION	SPECIFICATION
Forms a tough, flexible gasket/seal that resists ageing, weathering and thermal cycling without hardening. Ideal for oil pans, transmission pans, differential covers, timing gears and valve covers. Suitable for sealing aluminium and metal ducting, refrigeration applications and hygiene seals.	<ul style="list-style-type: none">• Colour - BLACK/RED• Base - Acetoxo• Viscosity - Paste• Min / Max Temp - -55°C - +300°C (Intermittent)• Skinning Time - 5mins 20°C• Size 80ml, 200ml Power Can, 310ml

MS58 – POLYMER



DESCRIPTION	SPECIFICATION
Water resistant sealant. Seals and bonds wet joints and surfaces. Underwater use. Flexible and tough. Can be over painted.	<ul style="list-style-type: none">• Colour - CLEAR/BLACK/WHITE/GREY• Base - Modified Silane• Viscosity - Paste• Min / Max Temp - -40°C - +90°C• Skinning Time - 10mins 20°C• Size 80ml, 200ml Power Can, 310ml

RTV123 - GASKET SILICONE



DESCRIPTION	SPECIFICATION
Can be used on all glazing and industrial work along with common building and construction joints. Also suitable for use on a wide range of substrates including metal, wood, painted metals, glass, PVC, polycarbonate, polyacrylate and many others.	<ul style="list-style-type: none">• Colour - CLEAR/BLACK/WHITE• Base - Acetoxy• Viscosity - Paste• Min / Max Temp - -40°C - +150°C• Skinning Time - 5mins 20°C• Size 80ml, 200ml Power Can, 310ml

RTVFS - FOOD SAFE SILICONE



DESCRIPTION	SPECIFICATION
Seal around kitchen work tops, food prep areas, and in canteens. Excellent adhesion to a variety of non-porous substrates eg: glass and ceramic tiles. Ideal for sealing refrigeration units and areas where repeated food contact is likely.	<ul style="list-style-type: none">• Colour - BLUE/WHITE• Base - Acetoxy• Viscosity - Paste• Min / Max Temp - -40°C - +150°C• Skinning Time - 5mins 20°C• Size 80ml, 200ml Power Can, 310ml

RTVGP - GENERAL PURPOSE SILICONE



DESCRIPTION	SPECIFICATION
Suitable for sealing aluminium and metal ducting fabrications, butt and channel glazing, gasketing and most industrial applications.	<ul style="list-style-type: none">• Colour - CLEAR/BLACK/WHITE• BASE - Acetoxy• Viscosity - Paste• Min / Max Temp - -40°C - +150°C• Skinning Time - 5mins 20°C• Size 80ml, 310ml

RTVNC - NEUTRAL CURE SILICONE



DESCRIPTION	SPECIFICATION
Can be used on all glazing and industrial work along with common building and construction joints. Also suitable for use on a wide range of substrates including metal, wood, painted metals, glass, PVC, polycarbonate, polyacrylate and many others.	<ul style="list-style-type: none">• Colour - CLEAR/BLACK/WHITE/GREY• Base - Oxime• Viscosity - Paste• Min / Max Temp - -40°C - +180°C• Skinning Time - 5mins 20°C• Size 80ml, 200ml Power Can, 310ml

WSPU - WINDSCREEN INSTALLATION KIT



DESCRIPTION	SPECIFICATION
Designed specifically for installing vehicle windscreens and bonded screens quickly and effectively. Resists shock and vibration. Excellent adhesive strength in peel and tension.	<ul style="list-style-type: none">• Colour - BLACK• Viscosity - Paste• Base - Polyurethane• Min / Max Temp - -40°C - +100°C• Drive Away Time - 1-2hrs <p>Contains</p> <p>1 x 310ml adhesive, 1 x 50ml primer, 1 x 50ml cleaner.</p>

Structural Adhesives & Epoxy Adhesives

B2011 - ONE HOUR CURE EPOXY RESIN



DESCRIPTION	SPECIFICATION
Rapid, cold curing epoxy adhesive. Bonds a variety of substrates including steel, aluminium and galvanised steel.	<ul style="list-style-type: none">• Mix ratio: 1:1• Colour: Clear• Viscosity: Viscous Liquid• Tensile Strength (Steel): 3.8N/mm²• Working Time: <30mins• Fixture Time: <1 hour• Size 25ml, 50ml

B2012 - RAPID FIVE MINUTE CURE



DESCRIPTION	SPECIFICATION
Epoxy Resin Suitable for bonding a wide variety of surfaces including steel, aluminium, and galvanised iron. Product reacts within a few minutes to give a tough resilient bond.	<ul style="list-style-type: none">• Mix ratio: 1:1• Colour: Clear• Viscosity: Viscous Liquid• Tensile Strength (Steel): 3.8N/mm²• Working Time: <3mins• Fixture Time: <5mins• Size 25ml, 50ml

B2013 - STEEL EPOXY RESIN



DESCRIPTION	SPECIFICATION
A steel-filled epoxy putty for general maintenance and repairs. Can be used to repair worn or fatigued metals, patch castings, making jigs and fixtures, rebuild pumps and valve bodies.	<ul style="list-style-type: none">• Mix ratio: 1:1• Colour: Grey• Viscosity: 50,000 - 75,000cps• Tensile Strength (Steel): 14-18N/mm²• Working Time: <4mins• Fixture Time: <7mins• Size 25ml, 50ml

B2025 - UNDERWATER EPOXY RESIN



DESCRIPTION	SPECIFICATION
Flexible, toughened, non-corrosive structural adhesive. Works on almost anything anywhere. Sticks and cures underwater.	<ul style="list-style-type: none">Mix Ratio: 1:1Colour: Off whiteViscosity: Viscous LiquidTensile Strength: 12.4N/mm²Working time: <30 minsFixture Time: <2 hoursSize 25ml

B2060 - SIXTY SECOND EPOXY RESIN



DESCRIPTION	SPECIFICATION
Rapid, cold curing epoxy adhesive. Bonds a variety of substrates including steel, aluminium and galvanised iron.	<ul style="list-style-type: none">Mix Ratio: 1:1Colour: Light BlueViscosity: Viscous LiquidTensile Strength (steel): 3.8N/mm²Working Time: 1minFixture Time: <5minsSize 25ml

B2204 - STEEL EPOXY



DESCRIPTION	SPECIFICATION
Two part, cold curing epoxy adhesive will bond to a wide range of metals and plastics, EXCELLENT ON ALUMINIUM. B2204 has a medium work-life (90 mins) to cater for longer assembly time.	<ul style="list-style-type: none">Mix Ratio: 1:1Colour: GreyViscosity: 35,000cps,Tensile Strength (steel): 24N/mm²Working Time: 90minsFixture Time: <24hrsSize 50ml, 400ml

B3286 - PP, PE, TPO BONDER



DESCRIPTION	SPECIFICATION
Low Surface Energy Bonder. Suitable for the bonding of PP/PE with no pre-treatment or primers.	<ul style="list-style-type: none">Mix Ratio: 1:1Colour: Off WhiteViscosity: PasteTensile Strength: Substrate failureWorking Time: <5 minsFixture Time: <25 minsSize 50ml

B3291 - ONE MINUTE PU



DESCRIPTION	SPECIFICATION
Very fast setting, room temperature cure polyurethane adhesive system. Has excellent adhesion to a wide variety of substrates and can be sanded once cured.	<ul style="list-style-type: none">Mix Ratio: 1:1Colour: BlackViscosity: PasteTensile Strength: 19N/mm²Working Time: <60 secsFixture Time: <20 minsSize 50ml

B3293 - THREE MINUTE PU



DESCRIPTION	SPECIFICATION
Fast setting, room temperature cure polyurethane adhesive system. Has excellent adhesion to a wide variety of substrates and can be sanded once cured. Good for ABS, PVC, Bumper repairs.	<ul style="list-style-type: none">Mix Ratio: 1:1Colour: BlackViscosity: PasteTensile Strength: 15N/mm²Working Time: <3 minsFixture Time: <30 minsSize 50ml

B3298 - UNIVERSAL BONDER



DESCRIPTION	SPECIFICATION
General purpose high strength metal and composite bonder. Minimal surface prep. Rapid fixture time. Thixotropic / low-sag.	<ul style="list-style-type: none">Mix Ratio: 1:1Colour: Black or Off WhiteViscosity: PasteTensile Strength: 24-31N/mm²Working Time: <7 minsFixture Time: <22 minsSize 50ml, 400ml

B3299 - UNIVERSAL BONDER



DESCRIPTION	SPECIFICATION
General purpose high strength metal and composite bonder. Minimal surface prep. Medium fixture time. Thixotropic / low sag	<ul style="list-style-type: none">Mix Ratio: 1:1Colour: Black or Off WhiteViscosity: PasteTensile Strength: 24-31N/mm²Working Time: <20 minsFixture Time: <45 minsSize 50ml, 400ml

B3400 - ACRYLIC/PMMA BONDER



DESCRIPTION	SPECIFICATION
B3400 is a crystal clear acrylic and polycarbonate composite bonder.	<ul style="list-style-type: none">Mix Ratio: 10:1Colour: ClearViscosity: 2,900cpsTensile Strength: Substrate FailureWorking Time: <17minsFixture Time: <2 hoursSize 50ml, 250ml, 490ml

B3420 - UNIVERSAL BONDER



DESCRIPTION	SPECIFICATION
Primerless Universal Bonder. Excellent impact, peel, shear, compressive strength and fatigue resistance. Rapid fixture time.	<ul style="list-style-type: none">Mix Ratio: 10:1Colour: BlackViscosity: PasteTensile Strength: 17N/mm²Working Time: <7 minsFixture Time: <18 minsSize 50ml, 490ml

B3422- UNIVERSAL BONDER



DESCRIPTION	SPECIFICATION
Primerless Universal Bonder. Excellent impact, peel, shear, compressive strength and fatigue resistance. Medium fixture time.	<ul style="list-style-type: none">Mix Ratio: 10:1Colour: BlackViscosity: PasteTensile Strength: 19N/mm²Working Time: <22 minsFixture Time: <35 minsSize 50ml, 490ml

B34ES - ENGINEERING STONE BONDER



DESCRIPTION	SPECIFICATION
Engineered Stone Bonder. UV stable and non-yellowing. High resistance to impact, wear, scuffing, boiling water and UV light.	<ul style="list-style-type: none">Mix Ratio: 10:1Colour: VariousViscosity: PasteTensile Strength: 60N/mm²Working Time: <13minsFixture Time: <30minsSize 50ml, 100ml, 250ml, 490ml

B34SS - ACRYLIC & QUARTZ BONDER



DESCRIPTION	SPECIFICATION
Solid Surface Bonder for Acrylic/ Polyester. UV stable and non-yellowing. High resistance to impact, wear, scuffing, boiling water and UV light.	<ul style="list-style-type: none">Mix Ratio: 10:1Colour: VariousViscosity: Viscous liquidTensile Strength: 55N/mm²Working Time: <13minsFixture Time: <30minsSize 50ml, 100ml, 250ml, 490ml

MRO & Aerosols

B7063 - SOLVENT CLEANER



DESCRIPTION	SPECIFICATION
For cleaning components prior to bonding. Depositing a correct balance of neutralising ions on the surface stimulating attraction for the adhesive and preparing the surface for bonding. Dissolves grease and oil based products (including dirt) so that they can be simply wiped away.	<ul style="list-style-type: none">Colour: Off White.Base: Organic SolventMin / Max Temperature: -5°C to +25°CSize 400ml

B7649 - ANAEROBIC ACTIVATOR



DESCRIPTION	SPECIFICATION
Speeds up the cure of all anaerobic fluids and pastes, it will also extend cure through greater bondline thicknesses. B7649 helps fixture time and reduces ultimate cure time. Use B7649 when materials are inactive (plastic or passivated metals) or where temperature is under 15°C.	<ul style="list-style-type: none">Colour: Yellow/AmberBase: HeptaneEvaporation: <60 secondsSize 200ml

B7740 - PENETRATING OIL



DESCRIPTION	SPECIFICATION
Low viscosity oil based product used to aid the removal and freeing of seized parts with a fast penetrating capillary action, it leaves a clear protective film to guard against further corrosion. Can be used for bolts, nuts, hinges, locks, tools and fittings.	<ul style="list-style-type: none">Colour: Almost ClearBase: Blend of petroleum distillates and oilsFor use at ambient temperaturesAdvanced formula with rust inhibitors and moisture displacersProtects against rustReduces frictionPrevents seized partsSize 400ml

B7772 - ADHESIVE SPRAY



DESCRIPTION	SPECIFICATION
Can be used on a variety of substrates including wood, concrete, stone, tiles, rubber, foam, metals, rigid plastic, polyethylene, canvas fabrics, cardboard, paper and cork. It is also ideal for fixing polyethylene sheets, thermal insulation and for packing applications such as palletising or case ealing.	<ul style="list-style-type: none">• Colour: Clear• Base: Synthetic rubber/resin• Min / Max Temperature: -5°C to -80°C• Size 400ml

BONDKIT - MITRE KIT



DESCRIPTION	SPECIFICATION
A fast acting two component system of cyanoacrylate adhesive and activator. It bonds most surfaces within 10 seconds, reducing mitre assembly times.	<ul style="list-style-type: none">• Colour: Clear• Viscosity: 1,200 -1,800cps• Size 50g/200ml, 100g/400ml

Priming and Cleaning

B001 - SUPERGLUE DEBONDER



DESCRIPTION	SPECIFICATION
A single component, cyanoacrylate de-bonder based on a hydrocarbon solvent. Used to soften and dissolve cured cyanoacrylate adhesive to enable removal.	<ul style="list-style-type: none">• Colour: Clear• Base: Hydrocarbon solvent• Size 20ml, 500ml

PREPBOND



DESCRIPTION	SPECIFICATION
A high-performance wipe, pre-saturated with 90% IPA and 10% de-ionised water. Providing a convenient, safe and effective way of cleaning and degreasing. They are suitable for a wide range of demanding industrial and manufacturing applications	<ul style="list-style-type: none">• Colour: White• Automotive, Marine, Agricultural, Electronics, Aerospace• Size x 100 wipes

Kits

DTB KIT - DIFFICULT TO BOND



DESCRIPTION	SPECIFICATION
Developed for the bonding of difficult to bond plastics and thermoplastic rubbers. DTB is a low cost solution that eliminates the need for expensive surface treatments such as plasma, corona, flame or chemical etching.	<ul style="list-style-type: none">• Colour: Clear• Cyanoacrylate Base: Ethyl• Shear Strength: 15-25 N/mm²• Can be used on the following materials: Polypropylene (PP), Polyethylene (PE), Fluoroplastics (PTFE) (FEP) (PFA), Silicone Rubber (TPE)• Size 20g/20ml, 50g/50ml

Applicator Guns

1:1 - 50ML GUN - P1 	10:1 - 50ML GUN - P1 	1:1 - 400ML GUN - M1
10:1 250ML GUN - P1 	10:1 - 490ML GUN - M1 	10:1 & 1:1 - PNEUMATIC

Mixer Nozzles

NOZ-EP50-11-R-A 	NOZ-50-101-S-A 	NOZ-400-11-R-A
NOZ-50-11-R-A 	NOZ-490-101-R-A 	

White Label

WL42 - NUTLOCK WHITE LABEL



DESCRIPTION	SPECIFICATION
For the locking and sealing of threaded fasteners. Used on gear box bolts, driveshafts, bearing cover cap screws etc.	<ul style="list-style-type: none">• Colour - BLUE• Viscosity - 1,200-1,800cps• Breakaway Strength - 20Nm• Prevail Torque - 3Nm• Min / Max Temp - -55°C - +150°C• Fixture Time - <20mins• Size 50ml, 250ml

WL70 - STUDLOCK WHITE LABEL



DESCRIPTION	SPECIFICATION
Our New Hazard Free Studlock / Threadlock is similar to our B270 but is hazard free. Locks studs and seals against leakage and corrosion.	<ul style="list-style-type: none">• Colour - GREEN• Viscosity - 350 - 550cps• Breakaway Strength - 20Nm• Prevail Torque - 18Nm• Min / Max Temp - -55°C - +150°C• Fixture Time - <15mins• Size 50ml, 250ml

WL74 - INSTANT GASKET WHITE LABEL



DESCRIPTION	SPECIFICATION
Instant in-place gasket former making almost any size and shape, replacing paper, cork, etc. Ideal for gearbox sealing, pump flanges, transmission assemblies, cover plates on tanks, cam shaft sealing and bearing gaps.	<ul style="list-style-type: none">• Colour - ORANGE• Viscosity - 30,000cps (Thix.)• Shear Strength - 6N/mm²• Min / Max Temp - -5°C - +150°C• Gap Fill - 0.2mm• Fixture Time - <30mins• Size 65ml, 250ml

WL77 - PIPESEAL WHITE LABEL



DESCRIPTION	SPECIFICATION
Seals all types of threaded connections. Good chemical/solvent resistance to ethanol, motor oil, unleaded petrol, acetone and brake fluid.	<ul style="list-style-type: none">• Colour - OFF WHITE• Viscosity - 5,000 - 20,000cps (Thix.)• Breakaway Strength - 22Nm• Prevail Torque - 18Nm• Min / Max Temp - -55°C - +150°C• Fixture Time - <30mins• Gas approved EN751• Size 65ml, 250ml

Powercans

B5180 - NON-SETTING GASKET



DESCRIPTION	SPECIFICATION
Non-cracking formulation ideal for engine gaskets, surfaces, cylinder heads, water pumps, gear boxes, threaded assemblies, flanges and pipe joints.	<ul style="list-style-type: none">• Colour - BLUE• Base - Solvent• Viscosity - 5,000cps• Min / Max Temp - -55°C - +270°C• Gap Fill - 0.5mm• Size 200ml Power Can

B5190 - FLEXIBLE GASKET



DESCRIPTION	SPECIFICATION
Can be used on all types of engine components withstanding constant temperatures up to 270°C and intermittent temperatures up to 350°C.	<ul style="list-style-type: none">• Colour - RED• Base - Solvent• Viscosity - 6,500cps• Min / Max Temp - -55°C - +270°C• Gap Fill - 0.5mm• Size 200ml Power Can

B5299 - HIGH TEMPERATURE SILICONE



DESCRIPTION	SPECIFICATION
Forms a tough, flexible gasket/seal that resists ageing, weathering and thermal cycling without hardening. Ideal for oil pans, transmission pans, differential covers, timing gears and valve covers. Suitable for sealing aluminium and metal ducting, refrigeration applications and hygiene seals.	<ul style="list-style-type: none">• Colour - BLACK/RED• Base - Acetoxy• Viscosity - Paste• Min / Max Temp - -55°C - +300°C• Skinning Time - 5mins 20°C• Size 200ml Power Can

MS58 - POLYMER



DESCRIPTION	SPECIFICATION
Water resistant sealant. Seals and bonds wet joints and surfaces. Underwater use. Flexible and tough. Can be over painted.	<ul style="list-style-type: none">• Colour - CLEAR/BLACK/WHITE/GREY• Base - Modified Silane• Viscosity - Paste• Min / Max Temp - -40°C - +90°C• Skinning Time - 10mins 20°C• Size 200ml Power Can

RTV123 - GASKET SILICONE



DESCRIPTION	SPECIFICATION
Can be used on all glazing and industrial work along with common building and construction joints. Also suitable for use on a wide range of substrates including metal, wood, painted metals, glass, PVC, polycarbonate, polyacrylate	<ul style="list-style-type: none">• Colour - CLEAR/BLACK/WHITE• Base - Acetoxy• Viscosity - Paste• Min / Max Temp - -40°C - +150°C• Skinning Time - 5mins 20°C• Size 200ml Power Can

Hot Melt Glue

12MM HOT MELT GLUE STICKS



DESCRIPTION	SPECIFICATION
Tecbond 213 is an economical general purpose adhesive suitable for use on wood, ceramics and some plastics, such as rigid PVC and polystyrene. Tecbond 213 is a medium in viscosity and can be used for porous surfaces, such as foams and fabrics.	<ul style="list-style-type: none">• Adhesive Type: EVA.• Colour: Very pale amber.• Molten Tack: Medium.

43MM HOT MELT GLUE SLUGS



DESCRIPTION	SPECIFICATION
Tecbond 213 is an economical general purpose adhesive suitable for use on wood, ceramics and some plastics, such as rigid PVC and polystyrene. Tecbond 213 is a medium in viscosity and can be used for porous surfaces, such as foams and fabrics.	<ul style="list-style-type: none">• Adhesive Type: EVA.• Colour: Very pale amber.• Molten Tack: Medium.• Heat Resistance: 75c.

12MM HOT MELT GLUE GUN



DESCRIPTION	SPECIFICATION
The Tec 810-12 is a heavy-duty, industrially-rated 12mm Glue Gun that has a very high glue output and is extremely easy to use. This tool is designed for comfortable all day use.	<ul style="list-style-type: none">• Melt Rate: up to 2.0kg/hour.• Adhesive Used: Tecbond 12mm Sticks.• Temperature: 195c.

43MM HOT MELT GLUE GUN



DESCRIPTION	SPECIFICATION
The Tec 810-12 is a heavy-duty, industrially-rated 43mm Glue Gun that has a very high glue output and is extremely easy to use. This tool is designed for comfortable all day use.	<ul style="list-style-type: none">• Melt Rate: up to 3.5kg/hour.• Adhesive Used: Tecbond 43mm Slugs.• Temperature: 195c.

Bonding Paste

DESCRIPTION	PRODUCT
Marine bonding paste. Pre-accelerated bonding paste based on unsaturated polyester resin, with good mechanical properties. Short gel time with controlled shrinkage property.	BP 727 RA
General purpose bonding paste, short gel time	BP 72 A
General purpose bonding paste, long gel time	BP 72 IR
General purpose bonding paste, short gel time, with fibres	BP 75 ARF
General purpose bonding paste, long gel time, with fibres	BP 751 ARF
General purpose bonding paste, automatic application	BP 725 ARC
General purpose bonding paste, very low viscosity	BP 730 AC
Vinylester based bonding paste for structural bonding, medium gel time	BP 6202 ARF
Vinylester based core bonding paste, low density and very low shrinkage	BP 6400 ACRW
General purpose bonding paste. Long gel time with low shrinkage	BP 2040 AR
Marine low density bonding paste. Pre-accelerated based on unsaturated polyester resin. Excellent bonding properties with low heat deflection temperature (HDT). Medium gel time with low shrinkage.	BP 06 AW
Bonding paste with glass fibres. Used for joining laminates to laminates and laminates to wood or PVC foam. Medium gel time with low shrinkage.	BP 89 ARF

Pliogrip - Structural Adhesives

Polyurethanes

Particularly suitable for structural bonding of composites, coated metals and several thermoplastics.

DESCRIPTION	PRODUCT
Series Standard for heat cure applications	7400
Series Standard for room temperature curing	7700

We stock the full range of Pliogrip adhesives from Ashland Performance Materials.

Epoxies

Developed for structural bonding of metals and applications requiring high temperature resistance.

DESCRIPTION	PRODUCT
Series For heat cured applications	5500
Standard for room temperature curing	5761B

8 GROUP PARTNERSHIPS



“Your Composite Solution Partners”

8 / GROUP PARTNERSHIPS

Total Composite Solutions (TCS)	99
Consumable Solutions	111



“As the composite market continues to develop so do our solutions. In order to add value across the entire composite sector from consumables through to advanced composites we have developed partnerships with businesses such as Total Composite Solutions (TCS) and Consumable Solutions all of whom share a common business culture.”



World class innovative
composite solutions



TCS was founded in 2017 and partnered with GRP Solutions Ltd. in January of 2018 where we found shared values, a “people” culture and a strategic drive to service the whole composite sector. Partnering with a number of major principals specialising in Prepregs, Woven Fibres, Advanced Resin Systems and Structural Adhesives we service wide ranging markets from Automotive, Aerospace, Tooling and Industrial sectors in regions from the UK through the Americas and globally where the market or supply chain dictates.

We see material supply as a part of what we do but it does not define our business. We are a solutions based business with over 100 years expertise in the global market. Our structure and strategy allows us to be reactive to challenge, fast to respond, and along with our Manufacturing partner's flexibility in operations, bespoke material solutions are formulated and implemented efficiently, ensuring our clients realise their goals and launch their developments in much shorter timelines with less complexity.

Our mission at TCS is to work to provide real value to both our partners and clients always focusing on the full solution. Our partners see us as an extension of their businesses and our clients as the “go to” position to meet their business needs. We see our customers challenges as our greatest opportunities.

*“The closer we are to our partners and clients
the higher our performance becomes”*

Andy Pointon
Managing Director, Total Composite Solutions

Capabilities

“From conceptual idea to market realisation”

At TCS we utilise over 100 years direct global market experience and knowledge from within the Composite market including technologies of SMC/BMC, Advanced resin chemistry, reinforcement and weaving to Prepregs and Adhesives, to support our clients in bringing their projects to life, often working from initial idea through to defined manufacturing positions.

SUPPORTING AND PROVIDING SERVICE IN:

- Design and engineering.
- Purchasing and supply chain.
- Material development and selection.
- Material supply and technical service.
- Prototyping and testing.
- Manufacturing selection.

“Working together for a better solution”





Automotive

Environmental need driving global legislation change, along with a desire for greater design flexibility, continue to facilitate a double digit growth for composites within the global Automotive sector.

Stronger, lighter materials and faster production methods stretch the reach of the material toward more main stream production, a position historically limited to only the specialist vehicle sector.

Technical demands on the material selection continue to increase and create the necessity for more advanced resin systems, alternative reinforcement and processing.

TCS and its partners have and continue to focus on these challenges ensuring research and development for the sector is central to our strategy. New resin systems featuring greatly improved material handling safety, and higher material application properties, are some of the areas where our material and service proposition add value to our clients.

Our wide ranging bespoke weaving capability and fast efficient supply chain gives OEM's and designers new exciting product propositions to exceed their clients expectations.

MARKET PRODUCTS INCLUDING:

- Market leading ultra clear, high TG, cosmetic prepreg systems.
- Toughened structural prepreg systems.
- Multi chemistry structural adhesives.
- Fast Cure VE advanced resin formulations.
- Bespoke weaving designs in exotic fibres and metals with matched resins systems.

"Developing smarter solutions to a changing market"



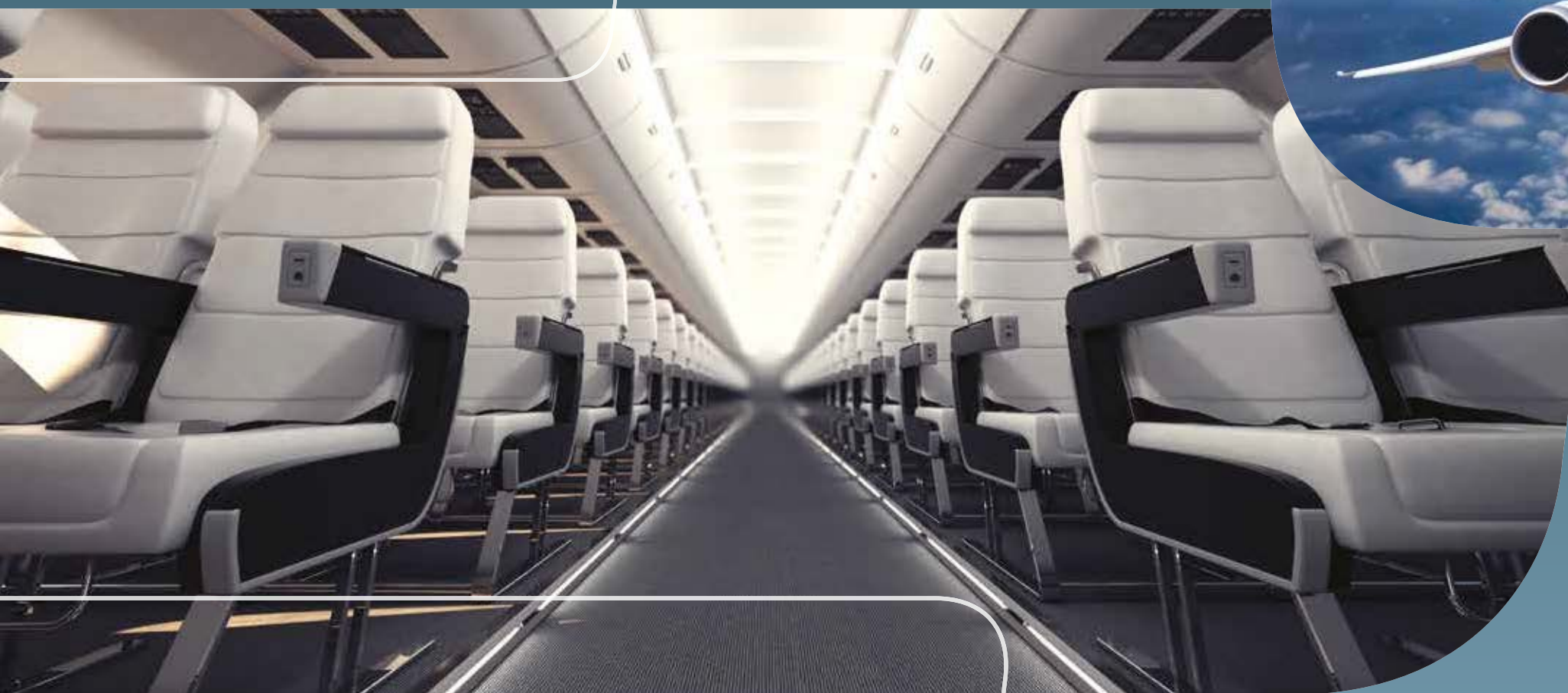
Aerospace

The global Aerospace market remains the largest consumer of global advanced composite volumes and continues to demonstrate high CAGR across all applications.

Materials from primary structures, secondary structures through to interior applications call for wide ranging properties, as well as technical and chemical solutions.

Within the interior sector, traditionally and to the current time, materials based on Phenolic

chemistry have been the products of choice, offering the performance to meet stringent fire resistant specification and low smoke emissions. The driver to remove Phenolic, as a more hazardous material from the sector creates both opportunity along with a substantial technical challenge.



TCS and our partners have developed some unique material and process solutions to meet and exceed the challenges faced by the sector, offering an alternative chemistry for interior aerospace applications.

With a newly formulated and patented development, the team at TCS work with both OEM and Tier 1 suppliers to close the gap between material and the market need.

*“New advanced technology
exceeding the market expectations”*



Wider Market Applications

At TCS we work alongside many other industrial sectors where our product portfolios and solutions-based strategy add value to the market and product. Wide ranging advanced materials are gaining traction in current and developing markets taking alternative technical solutions to build product performance to new levels. Using our material knowledge and experience gained from the industry and more established sectors, we support our clients in their development and product improvement plans.



MARKET AND SECTOR APPLICATIONS INCLUDE:

- Tooling manufacture.
- Medical device and prosthetics.
- Renewable energy.
- Marine, structural and decorative design.
- Satellite and space.
- Defence and ballistics.
- Sports and leisure.
- Rail.

"Supporting the growth of advanced materials into current and emerging applications"



Structural Adhesives

With the addition of structural and engineering adhesives, TCS offers high quality adhesives and bonding solutions to complement its current product offerings, further enhancing the total solutions position, supported by extensive in-house adhesives knowledge and expertise.

TCS structural and engineering adhesives portfolio utilises a wide range of resin chemistry in order to provide end users with the best possible product for each individual application.

Fully compatible with modern manufacturing processes and capable of providing even greater flexibility in component design, our adhesive

solutions potentially reduce weight and increase production throughput.

Suitable for bonding the vast majority of composite materials, metals and plastics, the TCS structural adhesives range will ensure durable bonds, offering multiple options for designers, engineers and production managers.

KEY BENEFITS OF STRUCTURAL ADHESIVES:

- Strong with excellent fatigue resistance.
- Working and cure speeds to fit many manufacturing processes.
- Resistant to water and many common chemicals.
- Good elongation, reducing stress on parts.
- Gap filling capabilities.
- Minimal surface preparation required on most composites.
- Excellent for bonding dissimilar substrates.
- Multiple open/working times to suit multiple applications.
- Range of testing capabilities, both in-house and external.
- Impact resistant.

"TCS - the solution to all your advanced composite bonding needs"



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Hampshire, PO9 2NT, United Kingdom



"A solution for all your consumable needs"

Our team at Consumable Solutions recognises the challenges that our customers face in managing the procurement of consumables. In some cases this can involve hundreds or thousands of line items or one off speciality products.

We also understand that there is not one solution that fits all customers. That is why we have developed a range of solutions for our customers and will even offer a bespoke service where required.

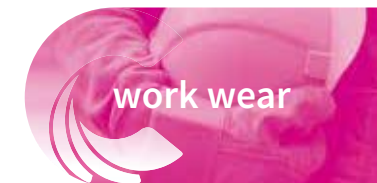
Our approach is to understand your needs and then use our experience, passion and technology to make the procurement process more efficient, transparent and cost effective.

With access to over 36,000 line items and state of the art technology our team is confident that they can provide on-time delivery, reduced transactional costs, reduced stockholdings and lower on-going costs through real-time usage reporting.

Our mission is to provide our customers with solutions. No matter the sector, the product category or application we will source, manage and deliver a Consumable solution.

Whatever your business – we have a solution for you.

Brian Harpur, Managing Director





mobile stock solutions

Mobile stores onsite, delivering conveniently and consistently

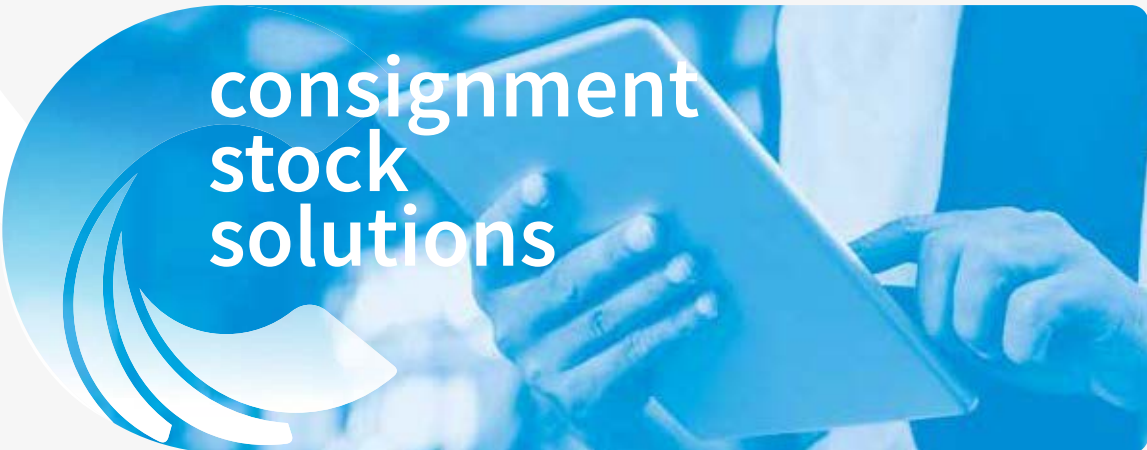
Fully equipped vehicles bringing your consumable requirements to your door. Using the latest barcode scanning technology, which combines efficient supply with same day paperless digital invoicing, emailed to your preferred address, or simply paid by cash or card. Special items can be ordered at this point and delivered, or express couriered within a few days.



personal stock solutions

Your own stock consignment, managed by our team

The benefits of a stock management system, managed by us, enabling seamless onsite supply. Customer owned stock, with Free of Charge storage units and the latest technology to monitor and control stock levels, throughout a fixed price term. Regular data updates via an App will be available to manage consumption and usage.



consignment stock solutions

Traditional consignment supplied and managed by our team

Removes the commitment to large stock holdings, as you pay only for goods used through Consumable Solutions owned stock. Free of Charge shelving units, restocking and hands on management enables close monitoring using the latest technologies. This approach allows for the provision of separate cost centres within the business and customer access to high quality data to allow for in-depth analysis of the company's consumable spend.



Order online at www.consumable-solutions.com
or contact our friendly and experienced staff:
telephone: +44 (0)2392 459511
email: sales@consumable-solutions.com

Setting the Standard in Composite Distribution

“Great people are at the heart of GRP Solutions. The foundation of this successful business is a highly experienced and passionate team of composite experts who have an extensive knowledge of their customers’ markets.”





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