

*over 50*

**NEW**  
**PRODUCTS**

October / November 2010

# PRODUCT LIST



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# Products

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PRODUCT SIZE, PRICING, TECHNICAL & SAFETY SHEETS ARE ALL AVAILABLE ONLINE.

## ACETONE

**ACETONE** - Acetone is an industrial solvent used within the GRP industry for cleaning uncured resins from tools and work surfaces. It is a heavy duty degreaser and helps remove fluids from glass and metals. It is also widely used as a high strength nail varnish remover.



## BONDING PASTES

**FREEFIX 6470** - Freefix 6470 Bonding Paste for use with composites and also within other fields. A superior grade paste, catalysed with BPO paste and incorporating a colour change mechanism on initiation. Use for filleting, gap filling and bonding GRP structures where firm consistency and controllable pot life are desirable. Bonds well to GRP, Wood, Foam, Steel, Brick, Concrete, and many other materials.

## TECH



## CARBON FIBRE CLOTH

**CARBON FIBRE CLOTH** - High quality carbon fibre cloth, used widely for its strength to weight ratio. Can be used with acrylic, epoxy and polyester resins. Carbon Fibre Cloth is widely used in aircraft parts, high-performance cars and motorcycles, sports equipment, and other demanding mechanical applications.

## TECH



## CHEMLEASE RELEASE / MOULDING PRODUCTS

## TECH

**CHEMLEASE 15 SEALER** - Chemlease 15 Sealer is a high performance sealer developed to condition and seal mold surfaces, reduce mold porosity and act as a base for new or reconditioned molds. Reduces porosity problems, Provides an excellent base coat for all types of release agents, Compatible with fiberglass, aluminium, steel, and most solid or dense surfaces, Shortens break-in time. High temperature stability - 850°F/450°C



**CHEMLEASE 712 EZ SEALER** - Chemlease® MPP 712 EZ is formulated for sealing tooling in both the FRP and advanced composites sectors. Appropriate substrates include polyester gelcoat and non-gelcoat, epoxy and phenolic mold surfaces, and most metals. Chemlease® MPP 712 EZ is not recommended for sealing monolithic graphite or ceramic tooling. It has the ability to enhance the performance of semipermanent release agents. In many cases, it has also been used as a means of re-surfacing a worn-out mold.



**CHEMLEASE PMR MOULD RELEASE** - Chemlease® PMR series products are unique semi permanent mold release system developed specifically for the polyester molding industry. Chemlease PMR is a High gloss, Class A mold release for the polyester/composite molder. Suitable for 98% of molding applications.



**CHEMLEASE PMR-90 MOULD RELEASE** - Chemlease PMR-90 is the highest slip version of PMR; primarily for closed molding of abrasive, low draft parts, where a quality finish is still required.



**CHEMLEASE 41 MOULD RELEASE** - Chemlease® 41 series products are rapid curing semi-permanent mold release agent that provides multiple releases with virtually no transfer to the molded part. High thermal stability, Virtually no transfer, Multiple releases between applications. For releasing most materials where matte or satin finish is required.



**CHEMLEASE 41-90 MOULD RELEASE** - Chemlease® 41-90 is a rapid curing semipermanent mold release agent that provides multiple releases with no transfer to the molded part. Chemlease® 41-90 is the highest slip version of Chemlease® 41; primarily for closed molding of abrasive or low draft parts, where a matte or satin finish is required.



**CHEMLEASE 75 MOULD RELEASE** - Chemlease® 75 is a unique semi permanent mold release system developed specifically for the marine and cultured marble, Class A applications. Allows use of most standard fine line / masking tape, Excellent for use on large parts where pre-release may be a concern. Molds/parts that exhibit a lot of abrasion during molding or demolding should utilize Chemlease® PMR-90, which offers a higher level of slip.



**CHEMLEASE 70-90 MOULD RELEASE** - Chemlease® 70-90 is the highest slip version of Chemlease 70; primarily for closed molding of abrasive, low draft parts where a quality finish is still required.



**CHEMLEASE 131 MOULD RELEASE** - Chemlease® 131 is a one-part, room-temperature curing material that provides a long-wearing release film with proper mold preparation and application. It gives easy, multiple releases, and does not require an extended cure. It is a ready-to-use liquid dispersion.



**MOULD CLEANER** - Our Mould Cleaner is a special blend of solvents designed to remove wax and contaminants from composite molds. It is ideal for preparing composite mold surfaces for the application of Chemlease® mold sealers and releasants. It is also excellent for cleaning brushes and equipment.



## COREMAT XI BULKER MAT

## TECH

**COREMAT** - Coremat Xi is the world's standard for bulker mats. The Coremat resin consumption is about 600 grams per mm thickness. It contains a resin indicator which changes colour to show that resin has been applied to the Coremat. Coremat Xi is very soft and pliable when it is wet and therefore very suitable for complex shapes. Coremat is a polyester nonwoven that contains micro spheres and is used as a thin core (bulker mat) or print blocker (liner) in fibre reinforced laminates, manufactured in Hand Lay-Up or Spray-Up processes. Available in a range of thicknesses.



## FIBREGLASS

## TECH

**CHOPPED STRAND MAT (CSM)** - Chopped strand mat is made from fibreglass chopped strands bonded with an emulsion binder. Chopped strand mat is used primarily for hand lay up process, filament winding process and press molding of GRP products. It is available in a range of weights to suits the individual product requirements. All our chopped strand mats are soft to handle with good conformity, fast wet through and wet out, good are release, and importantly Approved by Lloyd's Register of Shipping in craft constructed under their survey.



**CHOPPED STRANDS** - Used in reinforcing resins, thermoplastics and gypsum. Ideal for awkward areas in mould making where mat lifts up. Chopped strands - suitable to use as additive to polyester resins to make a glass reinforced putty like compound for those very difficult to laminate areas. 6mm chopped strands have excellent secondary bond properties and is extremely tough. May also be used in mortar and plaster to give extra strength.



**FIBREGLASS TAPES** - Fibreglass tape is made from continuous glass fibre roving which is interlaced into a heavy weight fabric. Perfect for reinforcement as it provides high tensile and strength in laminates, also used for high strength and lightweight moulding. Suitable for use with most epoxy and polyester resins. Popular within the canoe and surfboard arena for small repairs.



**SURFACE TISSUE** - Used to cover coarse surfaces of chopped strand mat and other GRP products, improves finish on completed laminate when used on last layer. May be used as a barrier between layer of gelcoat surface and csm to prevent print through



**WOVEN ROVING** - Woven Roving is a widely used material in composite construction, with perfect properties of reinforcement, corrosion-resistance and insulation. Woven Roving is made from continuous glass fibre roving which is interlaced into a heavy weight fabric. Perfect for reinforcement as it provides high tensile and strength in laminates, also used for high strength and lightweight moulding. Suitable for use with most epoxy and polyester resins. At it's best is sandwiched between alternating layers matting, ideally a balanced laminate, ie, equal layers of matting on either side of Woven Roving. On it's own it will be subject to delamination or 'peeling' from surface.



**FIBREGLASS KITS** - Variety of kits including resin, fibreglass and tools. Datasheets available on separate items.



**FILLER POWDERS** **TECH**

**COLLOIDIAL SILICA** - Colloidal Silica is an agent which is used to control the thixotrope or 'sag' characteristics of a resin system. By adding colloidal silica powder in varying amounts to a resin mix containing the other filler types mentioned, the handling and flow characteristics can be controlled. Relatively small quantities added to a resin mix containing glass bubbles or microballoons will give non-sag properties and impart easier handling. Colloidal silica is also used with microfibres to produce a mix suitable for use as a high strength, non-sagging structural adhesive, particularly for non-absorbent materials such as grp. The inclusion of colloidal silica has the effect of increasing the hardness of the resulting mix which will create more difficulty when sanding. For this reason colloidal silica is usually added in the minimum quantities to any mix for which sanding is anticipated. In some applications this feature can be used to an advantage, for example to create a hard wearing edge or surface.



**FILLITE** - Fillite is a versatile filler with applications in a wide variety of products, both commercial and industrial. These are as diverse as oil well cementing and PVC cushion vinyl flooring. However, in each case, Fillite is used for its unique properties, such as strength, low density and chemical resistance. Fillite is commonly used with Polyurethane, Cement, Latex Emulsions, PVC, Epoxy Resins & Polyester resins.



**GLASS BUBBLES** - Glass Bubbles are hollow glass spheres with a more variable particle size than microballoons. Being composed chemically of glass, they are physically harder than microballoons and filled resin mixes are noticeably more difficult to sand. However, glass bubbles produce a more waterproof filler mix and are often used on below-waterline applications on boats. Being significantly less expensive than microballoons they are often preferred if easy sanding performance is not of prime importance. They can be mixed with microballoons in any proportion for colour purposes.



**MICROBALLOONS** - Microballoons are hollow phenolic resin spheres which have a distinctive reddish/brown colouration. This makes them particularly useful for cosmetic fillet joints and fillers in wood construction, as well as structural adhesives for less demanding applications on softer timbers such as cedar. Although not as waterproof as glass bubbles, microballoons are often preferred for their excellent sanding characteristics. Microballoons are not normally used with polyester or vinyl ester resins because they can be subject to styrene attack which may cause the spheres to collapse.



**MICROFIBRES** - Microfibres are very fine wood-cellulose fibres commonly used to create structural adhesives for bonding both wood and grp. Because any low viscosity resin system is readily absorbed into a porous surface such as wood, an unfilled adhesive may tend to give a 'dry joint'. With their absorbent properties, microfibres can retain a significant quantity of adhesive within a joint and limit resin absorption into the surrounding surface, thus ensuring an adequate resin supply for adhesion. Where the strongest bond is required, e.g. timber scarf joints, microfibres should always be used in preference to hollow sphere-types of filler. For bonding parallel to the grain with lower density, lower strength timbers, such as cedar or obeche, a microballoon mix is often adequate, and is of lower density.



**TALC** - Quality Fordacal Talc Filler for Resin / Cold Casting. This talc can be added when cold casting to add weight without adding the bulk of an additive such as Fillite. Is used widely in industry as it has the advantage of being easily rubbed / sanded when cured.



**FILLER PASTES** **TECH**

**DAVIDS P40** - A two-component bridging filler paste designed to repair damaged body panels on vehicles. Can be used on bare steel, and original paint surfaces. Very durable, can be sanded and shaped if required, easily covered with standard polyester filler, can be over-painted directly, waterproof.



**DURATEC HHR PUTTY** - This high setting, high heat resistant (up to 230°C) system offers the user a smooth workable paste with a fast cure time to expedite repairs. To repair and finish aerospace, aircraft, automotive and general GRP tooling and fabricated parts when there is a potential exposure to elevated temperatures up to 230°C, 446°F. The putty bonds to fibre glass, SMC, BMC, RIM, GRP, epoxy, graphite, and Kevlar composites. The cured putty can be finished by grinding and/or sanding to a feather edge.



**LR HVD50 EASYSAND FILLER** - Llewellyn Ryland HVD50 is a DCPD unsaturated polyester designed for filling applications. Its versatile chemistry makes it ideal for filling metal, wood and GRP. Its unique curing characteristics are achieved with the addition of 1-4% Benzol Peroxide Paste (50% BPO) even at 0°C.



**HEMPEL EPOXY FILLER** - As a filler for metals, hardwood, glass fibre and other rigid materials. On large surfaces especially suited for smooth filling. For filling of minor pinholes in weldings, cavities in propellers, keels and similar. Repair of osmosis damage in glass fibre reinforced polyester hulls.



**HEMPEL PROFILLER LIGHT WEIGHT EPOXY FILLER** - A two-component, lightweight epoxy filler, featuring high adhesion and water resistance, when fully cured is easy to sand. Can be applied in coats up to 10-12 mm for a uniform smooth film build.



**U-POL SMOOTH 7** - Polyester bodyfiller that provides deep-filling properties and easy of sanding. It is a truly universal bodyfiller for the bodyshop. Smooth application characteristics. Excellent deep-filling properties. Easy of sanding. Provides fine finishing. High adhesion to a wide range of substrates (steel, galvanised/zinc coated steel, aluminium and GRP).



**GELCOATS** **TECH**

**CLEAR GELCOAT** - Clear standard isophthalic brushing polyester gelcoat, designed as a clear or pigmentable general purpose moulding gelcoat for hand layup use in GRP construction. Suitable for application by brush to give an even film, free from air and drainage. Can be used clear or pigmented, compatible with Llewellyn Ryland Polyester Colour Pastes. Shows excellent weathering properties. Lloyd's Register of shipping approved.



**WHITE GELCOAT** - White standard isophthalic brushing polyester gelcoat, designed as a white general purpose moulding gelcoat for hand layup use in GRP construction. Suitable for application by brush to give an even film, free from air and drainage with excellent whiteness and opacity. Shows excellent weathering properties. Lloyd's Register of shipping approved.



**TOOLING GELCOAT** - Designed to be used for the manufacture of GRP tools/ moulds. Suitable for application by brush or roller to give an even film, free from air. Our tooling gelcoat yields a film that is hard and tough with good flexibility.



**FLOCOATS / TOP COATS**

**TECH**

**FLOCOATS** - Designed as a general purpose topcoat for use in GRP constructions to hide fibre from lamination and generally improve appearance. Will air-side dry without a tacky finished, is an alternative to using Wax Additive to Gelcoats. Also available in non-slip version.



**JESMONITE**

**TECH**

**JESMONITE** - Jesmonite is a versatile range of water-based, solvent free composite materials ideally suited to the creation of decorative mouldings and glass reinforced laminates. These materials have a range of unique properties, which contribute to strength, durability, non-toxicity, and the ability to comply with many of the necessary test requirements of the construction industry, specifically those in regard to fire performance and impact resistance

**AC100** - Jesmonite AC100 is an Acrylic Composite material supplied in two parts, a powder and a liquid. It is suitable for both decorative castings and glass reinforced laminates, and can be pigmented using the Jesmonite range of water-based pigments. It is also possible to add a range of decorative and functional fillers in order to achieve a wider range of effects and to meet a broader spectrum of specifications. Jesmonite AC100 can be used both internally and externally, although external use requires the application of a suitable sealer or external paint system for long-term exposure. It is fire-resistant, having achieved a Class '0' fire rating under UK Building Regulations BS476 (Parts 6&7). Due to its solvent free formulation, AC100 can be cast without damage to rubber moulding compounds, and without limitation to scale. It is also dimensionally stable due to low exothermic reaction, and produces a small amount of expansion on set (1mm/ linear metre).



**AC300** - Jesmonite AC300 is a low cost alternative to AC100. It is designed for applications where ultimate performance of AC100 is not required. It is supplied as two components; a water-based acrylic liquid, and a mineral powder. AC300 contains less Acrylic resin than AC100 and as such is an economic alternative where external durability is not required. The system is suitable for a wide range of casting and laminating applications including decorative cast objects, rubber mould support cases, polystyrene and foam coating, rigid moulds and many other areas in the world of moulding. A range of ancillary products is also supplied further extending the materials versatility. Jesmonite AC300 is designed for internal use only, however it is suitable for short-term external projects such as exhibitions and props. If used externally a sealer or suitable paint system is recommended to protect surface appearance



**QUADAXIAL STITCHED GLASS** - This type of glass reinforcement is tailor made for use with Jesmonite. It is based on the latest multiaxial glass reinforcement technology, which makes Jesmonite fibre-glass laminates light and strong and fire resistant. It is constructed like a lace, with continuous glass strands in four axis (multiaxial) stitched together using the fireproof material Nomex. There are very few free filaments, making the glass safe and comfortable to use. It can be accurately cut using scissors or roller cutters, and will conform to even the most complex shapes. This makes it especially suitable to mould making and Jesmonite panel construction.



**RELEASE AGENT APW** - This is a universal release wax that will offer excellent release from a wide range of rigid mould compounds including plaster, Jesmonite, GRP, metal, wood, and glass. It can also be used on production equipment such as scales and casting tables to assist in cleaning. Please note that some porous surfaces such as plaster and timber may need to be sealed before release wax is applied, and trials should be carried out to ensure that the product is suitable.



**PIGMENTS** - Jesmonite Pigments are aqueous dispersions compatible with Jesmonite Composites. When dispersed in Jesmonite materials they offer excellent chemical stability, heat stability, and UV resistance. 2% will produce a strong, saturated colour. For lighter colours simply reduce the addition rate until the desired colour is achieved. Pigments can also be intermixed to produce any colour.



**RETARDER** - Set times of all Jesmonite Composite materials can be extended by the addition of Retarder to increase working time.



**SEALER** - Jesmonite sealer has a number of uses, as a coating for internal products, apply one coat of sealer by brush or spray to the product to give a clear satin finish. To prevent finger marking and provide a near matt finish, apply one coat of sealer, diluted with water by 75%. By adding pigments and water to the diluted sealer it is possible to create colour washes for patination.



**STONE FILLERS** - These stone fillers can be added to the AC300 or AC100 gel coat to achieve the desired stone effect.



**THIXO** - Thixotrope is added to the mix to thicken the material to a 'Gel-Coat' consistency and so that the viscosity of Jesmonite can be adjusted to the users preference. This is useful when brushing or spraying materials onto moulds with vertical faces as it prevents the material from slumping. By adding Thixotrope it is possible to apply a controlled 1mm – 3mm layer of material without it running off the mould surface. This also prevents glass reinforcements from showing at the face of laminated objects. Thixotrope can also be used to make the material into a paste, which can be used as a repair filler, and jointing paste for bonding two laminates together



**KEVLAR**

**TECH**

**KEVLAR CLOTH** - Can be used with Acrylic, Epoxy and Polyester resins. Extremely high strength to weight ration.



**LATEX**

**TECH**

**LIQUID LATEX** - This liquid latex is from quality manufacturer, it has not been diluted and is used by many local schools and art colleges for their students. The latex has not been thickened, we sell latex thickener separately. This latex contains ammonia, always perform small test first to avoid allergic reactions. Used in production of moulds and special effects.



**LATEX THICKENER** - Use from 1% - 5% to thicken liquid latex, for best results always use unthickened latex for first coatings.



**LIQUID PLASTICS**

**TECH**

EasyFlo™ Liquid Plastics are excellent for casting decorative objects, production parts, tools, models, duplicate masters and more. EasyFlo systems consist of two parts (A and B) that, after mixing, quickly cure to tough polyurethane plastics. Since Parts A and B are super-low viscosity liquids, they are easy to mix, provide excellent detail penetration, and make bubble-free castings without vacuum degassing or pressure casting techniques. Rapid demould times make EasyFlo ideal for high-volume, fast-cast applications.

**EASYFLO 60** - EasyFlo 60 pours like water, so making bubble free parts is easy and fast (2-min working time, 10-min demould).



**EASYFLO 95** - EasyFlo 95 is useful when longer working time (5 min) is needed to complete a pour. For thin parts, demould time is longer and molds may need to be preheated (100-120°F) to reduce surface bubbles and speed demould.



<p><b>EASYFLO 120</b> - EasyFlo 120 is best for rotocasting or slush casting to create hollow parts. This is a tough plastic - hollow parts are nearly unbreakable!</p>		<p><b>CLAYDIUM</b> - Claydium™ is a reinforced air-drying modelling clay, available in two versions: White and Terracotta. It is similar to Newclay™ but smoother in use and, while still malleable, will yield a stronger and harder final dried material. Claydium™ articles should be finished in the same way as objects made from Newclay™, i.e. decorated with a good quality ceramic or acrylic paint and finished with Newclay Gloss™ or Newclay Satin™.</p>	
<p><b>EASYFLO CLEAR</b>- EasyFlo Clear cures to a pale amber colour and is often used with PolyColors to make transparent, coloured castings. Also, it's excellent in applications using fillers intended for visual appeal (e.g., bronze)</p>		<p><b>FINE CASTING PLUS PLASTER</b> -Fine casting plaster is used in the manufacture of fibrous plasterwork and GRP elements, and in general decorative casting and modelling applications.</p>	
<p><b>POLYTEK POLY FIBER II</b> - Used to thicken polyurethane rubbers and plastics for making brushed molds and shells. Turns a pourable mold rubber such as Poly 74-30 into a brushable system with any level of thickening desired - thin for a face coat or thicker for subsequent coats. Also makes a pourable plastic such as Poly 1512X into a highly versatile, brushable consistency for making lightweight mother molds or mold shells. Thickened plastics can be used to create thin, lightweight, laid-up castings.</p>		<p><b>FINGER SOFT</b> -Finger Soft™ Modelling Dough is a soft and pliable modelling / playing dough. It is suitable for use by all ages, but is particularly aimed at younger children. If replaced in the container after use, it can be reused many times. These products are ideal for children and for use in education.</p>	
<p><b>POLYTEK PLASTI-FLEX FLEXIBLE CASTING RESIN</b> - This firm rubber is excellent for casting decorative objects, prototypes, models, architectural reproductions, duplicate masters, production parts, fixtures, props, tools and more. Poly Plasti-Flex is ideal for casting slightly flexible and impact-resistant parts such as decorative trim, flex molding and millwork as well as for props and display items requiring high impact resistance. Poly Plasti-Flex is useful for countless commercial, industrial, hobby, craft, prop and display projects.</p>		<p><b>MODROC PLASTER OF PARIS BANDAGE</b> -Modroc is the generic name for Plaster of Paris modelling bandage. Use to quickly create shape and form to models.</p>	
<p><b>POLYTEK POLYPURGE DRY GAS BLANKET SPRAY</b> - Poly Purge™ dry gas can be sprayed into an open container, just before resealing the lid, to displace moist air, thus extending the life of polyurethane liquids. Poly Purge™ is heavier than air and is nonflammable and non-ozone depleting. It is packaged in an aerosol-type can with a special nozzle extension useful for directing the gas into the desired space.</p>		<p><b>NEWCLAY</b> - Newclay™ is a reinforced air-drying modelling clay. It is a unique product, providing the attributes of clay with the convenience of other modelling materials, yet it is characterised by being non-sticky and with slow shrinkage during drying. Newclay™ is malleable, it air dries without the need for heating, it can be used with professional pottery tools and, as it is nylon reinforced, it will not go brittle. It is suitable for use by both children and adults. While its reinforced finish makes it exceptionally strong, Newclay Hardeners (H1™ or H2™) can be applied to improve durability of the final article. For best results, finished pieces should be decorated with a good quality ceramic or acrylic paint and finished with Newclay Gloss™ or Newclay Satin™. Newclay can also be kiln-fired with exceptional results.</p>	
<p><b>POLYTEK POLYCOLOR DYE / PIGMENTS</b> - Liquid dye for coloring Polytek's polyurethane liquid rubber and plastic products. A little goes a long way. 0.5% by Weight to be exact ( excluding brown which is 1.0% ) They can be mixed to desired colour Works with Easyflo 60, 95 , Clear &amp; More !</p>		<p><b>NEWCLAY GLOSS</b> - Newclay Gloss™ provides the final transparent gloss finish to your precious Newclay or Claydium article. Newclay Gloss can be applied over, or mixed with, any water-bound or powder colour, and will also act as an adhesive for dry Newclay or Claydium pieces.</p>	
<p><b>METAL POWDERS</b></p>		<p><b>TECH</b></p>	
<p>These fillers are more commonly used in resins for producing cold cast metal effects. Generally, higher amounts of metal powder are used to give a true metallic effect. Can be buffed, polished and a patina applied if required. - (ALUMINIUM - MESH 250) (BRASS - MESH 200) (BRONZE - MESH 300) (COPPER - MESH 300)</p>		<p><b>NEWCLAY HARDENER H1</b> - Newclay Hardener H1™ is supplied as a powder, which is dissolved in hot water and the solution applied onto a Newclay™ or Claydium™ model once it is dry to give the article a surface or "case" hardness. Additional coats can be applied as required, depending on the importance of the work and the degree of hardness required.</p>	
<p><b>MILLIPUT</b></p>		<p><b>TECH</b></p>	
<p>Milliput is an epoxy putty. It is produced five grades: Standard Yellow/ Grey, Silver Grey, Superfine White, Terracotta, and the latest addition - Milliput Black. Each grade is presented in similar packs containing 2 x 56-7gm. sticks and the general instructions for preparation and usage are the same. The two sticks have a long shelf life but once mixed the resultant putty is at first soft and highly adhesive and then gradually hardens. Speed of hardening is dependant on temperature and at normal temperatures (20-25°C) Milliput becomes rock hard in three to four hours. By the application of heat the setting time can be reduced to a few minutes.</p>		<p><b>NEWCLAY HARDENER H2</b> -Non-toxic hardener for Newclay.H2 is a yellow powder, which is kneaded into the Newclay prior to use. Gives all-through toughness. For added strength, further baking at 200°C is recommended.</p>	
<p><b>MODELLING SUPPLIES</b></p>		<p><b>TECH</b></p>	
<p><b>AIR DOUGH</b> - Newclay's Air Dough is an extremely lightweight and pliable, air-drying modelling material. Once dry it retains some pliability but is strong and very light, making it particularly suitable for applications where normal clays yield articles that are too heavy or brittle. The dried Air Dough piece can be painted if desired. Air Dough is very clean and easy to use. This products are ideal for children, for use in education, by arts and crafts professionals and hobbyists and by animators</p>		<p><b>NEWCLAY SATIN</b> - Newclay Satin provides the final transparent sheen finish to your precious Newclay or Claydium article. Newclay Satin can be applied over, or mixed with, any water-bound or powder colour, and will also act as an adhesive for dry Newclay or Claydium pieces.</p>	
		<p><b>NEWPLAST</b> - Newplast™ is a non-drying, non-setting modelling material. Newplast™ is sufficiently pliable to make a wide variety of models, but is firm enough to retain its shape indefinitely. Newplast™ is the material specified by most animators as being the only fit-for-purpose modelling product available. Similarly, it is used extensively in industry, for a wide variety of applications ranging from construction to medical device manufacture. Newplast is also suited for use in mould &amp; plug creation / sealing / filling</p>	
		<p><b>URO</b> - Uro™ is a soft, versatile and easy to use, heat cure modelling material. The completed item is placed in a domestic oven and heated to around 130°C for 20 to 30 minutes. Once cooled, the finished article is permanent and waterproof.</p>	

**PIGMENTS**

**TECH**

**EPOXY COLOUR PASTES** - Llewellyn Ryland epoxy dispersions are based on a blend of bisphenol A and bisphenol F epoxy resin modified with a reactive diluent. They have been designed for non-crystallisation even when stored at low temperature for prolonged periods. All our epoxy dispersions benefit from a high degree of grinding and stability



**POLYESTER COLOUR PASTES** - Llewellyn Ryland Polyester Colour Pastes are coloured liquid/paste mediums based on pigments dispersed within a solvent-free reactive unsaturated polyester resin. They are available in a wide range of colours varying in strength and consistency depending upon the particular colouring application. They have been developed to blend easily into resin systems. The range of colours is based upon pigments carefully selected for colour fastness, opacity, heat stability and having minimum effect upon the curing characteristics of the final system. They can be used to colour most polyester resin based systems used within the composites or related industry. Our Polyester Colour Pastes have excellent stability.



**POLYESTER TRANSPARENT COLOUR PASTES** - Designed as a colouring medium for polyester compression moulding, polyester extrusion and injection moulding, polyester flat sheeting production, polyester casting, and general composite construction involving styrenated polyester resins. The use of transparent pigments is also common in resin casting.



**POLYESTER POLYCHROMATIC / METALLIC COLOUR PASTES** - Designed as a colouring medium for polyester compression moulding, polyester extrusion and injection moulding, polyester flat sheeting production, polyester casting, and general composite construction involving styrenated polyester resins. These pigments give a metal or jewelled effect.



**POLYURETHANE FOAM**

**SOFT FLEXIBLE FOAM** - Polyfoam Soft 010 A+B is a two-part polyurethane foam system, when mixed together at the correct ratio, expands to form a low-density soft flexible foam. Self skinning in a closed mould, Soft and flexible, High Durability, CFC Free, Easily cut with a sharp knife, Water based system, Fire Retardant.



**MEDIUM FLEXIBLE FOAM** - Polyfoam 022 A+B is a two-part polyurethane foam system, when mixed together at the correct ratio, expands to form a mid-density medium flexible foam. Suitable for the production of film or theatre props where a flexible and mid density urethane moulding is required. Foam is also popular in grp construction where a light and flexible foam is required.



**LD40 RIGID FOAM** - LD40 is a two component, 1:1 ratio, CFC & HCFC FREE rigid foam system which when processed through suitable dispense machinery will produce a rigid foam of approximate density 40 kg/m<sup>3</sup> with good compressive strength, cell structure and other physical properties. LD40 is a general-purpose system for use in a wide variety of moulding applications where the foam needs gradual rise. LD40 is used in the thermal insulation of large panels, water heaters, storage tanks, refrigerated containers, behind produce store pressure walls and related double skin applications. It is particularly useful for the filling of large volumes where its gradual rise and excellent flow properties are used to best advantage.



**POLYURETHANE FOAM SHEET** - A rigid polyurethane foam slab available in 2 different sheet sizes and in a variety of thicknesses. It has a closed cell structure & is ideal for carving, and also for buoyancy and insulating purposes.



**POLYURETHANE RUBBERS**

Poly PT Series liquid rubbers are pourable polyurethane casting rubbers specifically designed for making prototype as well as functional rubber parts. Unlike liquid polyurethane mold rubbers (for mold making), these castable rubbers are low in viscosity and are fast curing so they can be demoulded rapidly. These rubbers are available in the range of Shore A20 to A70 hardness and are excellent for casting decorative objects, production parts, tools, models, patterns and more. With the addition of Poly Colour dyes, Poly PT Series rubbers can be used to cast flexible parts of virtually any colour.

**POLYTEK POLY PT FLEX 20 LIQUID CASTABLE RUBBER** - Poly PT Flex 20 Liquid Rubber is a soft A~20, flexible, fast-curing rubber, which has been developed specifically for prototyping and model making applications. Colour : Cream/Tan (varies slightly per batch)



**POLYTEK POLY PT FLEX 50 LIQUID CASTABLE RUBBER** - Poly PT Flex 50 Liquid Rubber is a mid-range, A~50, flexible, fast-curing rubber, which has been developed specifically for prototyping and model making applications. It offers a 8 minute working time and a 60 minute demould at room temperature.



**POLYTEK POLY PT FLEX 70 LIQUID CASTABLE RUBBER** - Poly PT Flex 70 Liquid Rubber is a firmer, A~70, yet flexible, fast-curing rubber, which has been developed specifically for prototyping and model making applications. Colour : Light Amber/Yellow (varies slightly per batch)



**RELEASE MATERIALS**

**BONDA APW SOFT WAX** - This is a universal release wax that will offer excellent release from a wide range of rigid mould compounds including plaster, Jesmonite, GRP, metal, wood, and glass. It can also be used on production equipment such as scales and casting tables to assist in cleaning. Please note that some porous surfaces such as plaster and timber may need to be sealed before release wax is applied, and trials should be carried out to ensure that the product is suitable.



**BONDA AFH SPRAY WAX RELEASE AGENT 400ML** - Release Agent for Polyester, Epoxy, Polyurethane. For use on silicone rubbers when separation is required, AFH dries rapidly, has low mould build up. Provides easy release for resins from moulds. Particularly useful in moulds when fine detail is important



**HI LO WAX** - A true, hard gloss, paste wax formulated with synthetic waxes and high heat resins for the effective release of most plastic parts through numerous cycles. Buffs to an ultra high gloss for easy separations. An excellent release between fiberglass/fiberglass separations as well as fiberglass/foam separations.



**HONEY WAX RELEASE AGENT** - Honey Wax is a unique, high gloss paste wax for use by the reinforced fiberglass molder as a mold release agent. It is compounded with the purest grade carnauba wax, plus special binders and spreading agents. Honey Wax creates a durable wax surface that remains intact for multiple pulls. Honey Wax reduces man hours due to its exceptional ease of application and buffing. true, hard gloss, paste wax formulated with synthetic waxes and high heat resins for the effective release of most plastic parts through numerous cycles. Buffs to an ultra high gloss for easy separations. An excellent release between fiberglass/fiberglass separations as well as fiberglass/foam separations.



**MACWAX SPRAY WAX** - MACWAX is a blend of waxes dispersed in rapid drying solvents and packed in aerosol form. This product does not contain CFCs, 111-trichloroethane or any other kind of halogenated solvent. MACWAX is suitable for use with many casting materials and a variety of mould types. Typical casting materials are polyurethane epoxy acrylic and polyester. MACWAX is also used extensively for moulding flexible semi-rigid and rigid polyurethane foams.





















**LEWELLYN RYLAND RA10 BLUE GLOSS PVA RELEASE** - Designed as a mould release/parting agent for use when fabricating mouldings in polyester gelcoat and layup resins in GRP construction. To achieve the best results when using PVA Release Agents it is recommended that they be spray applied. However, the glossy versions can also be applied by sponge or soft brush. The mould surface must first be thoroughly waxed and polished with a silicone-free wax ensuring that no areas are left unwaxed as they will result in sticking of the moulding during release.



**LEWELLYN RYLAND RA11 CLEAR GLOSS PVA RELEASE** - PVA Release Agents can be applied over wax polish but the wax polish must be silicone free. Soluble in water and therefore can be washed off moulds and mouldings with water even when dry.



<p><b>LLEWELLYN RYLAND RA12 BLUE MATT PVA RELEASE</b> - PVA Release Agents are a liquid solution of polyvinyl alcohol resin in a mixture of water and industrial methylated spirits sometimes including small quantities of dye and/or matting agent dependent upon the grade.</p>		<p><b>CASTING RESIN - DSM WATER CLEAR</b> - Water-white, clear casting resin designed for applications in which extreme clarity and absence of colour are required. This casting resin tends to allow more light through the casting resulting in a brighter cast than that of polylite however some customers feel the polylite gives a better clarity of cast.</p>	
<p><b>PETROGEL RELEASE / SEALER</b> - Petrogel is a solvent-based wax release agent, which has been specially formulated to provide release from a wide range of moulds and moulding materials. Petrogel provides a high quality and reliable release from moulds made from metal, epoxy, polyurethane, GRP (polyester) vacuum-formed plastics, silicones, wood, plaster and MDF. On porous surfaces it acts as a surface sealer; it works well due to its unusually high solids concentration.</p>		<p><b>EPOXY RESIN - SP 106</b> - SP 106 is a simple to use, all-purpose epoxy which can be used for gluing, coating, laminating and filling. With its range of hardeners, and easy 5:1 mix ratio by volume, SP 106 provides a quick and convenient way of using one epoxy system for a very wide range of tasks. SP 106 has been established for over 20 years as the primary epoxy system for the manufacture and repair of wooden boats, and it is now widely used in many other woodworking applications from cabinet making to the manufacture of large wooden moulds. Available with Fast or Slow hardeners.</p>	
<p><b>SUPER 100 ADVANCED FORMULA SILICONE MOULD SPRAY RELEASE</b> - Spray can be used to stop sticking of rubber and silicone parts and can be used with multipart silicone moulds to prevent moulds sticking together. This spray does not dry off, meaning it leaves a residue, if spraying on internal of a mould this residue may effect cast finish. Spray is popular with candle makers as the silicone residue left by spray ensures easy mould removal. Spray is also used within industry where non drying silicone residue needs to be left between parts</p>		<p><b>EPOXY RESIN - SP 115</b> - SP 115 is a low viscosity, ultra-clear epoxy laminating system. It has been designed for the manufacture of laminates such as those used in sail and surfboards which are to remain unpainted, and where a very clear finish is required. In this way colourful embedded graphics and attractive fabric weave styles can be kept visible. The material also contains UV filters which give the product its characteristic transparent pale violet/blue colour. These filters both enhance the sharpness of graphics, and, when overcoated with a suitable UV-screening PU varnish, will reduce the tendency of clear laminates to yellow after prolonged exposure to sunlight.</p>	
<p><b>TR 104 HIGH TEMPERATURE WAX</b> - A firm Mold Release Paste Wax based on the highest quality Refined Carnauba Wax blended with other synthetic high temperature ingredients and petroleum distillates. Use as release agent for Polyester/Fibre Glass molding on all FRP tooling, Formica, Metal and other hard surface molds.</p>		<p><b>EPOXY RESIN - SP 320</b>- SP 320 is a solvent-free, clear epoxy coating that provides a high clarity, tough finish to whatever it is applied to. When used for coating wood, just a few coats will provide both protection and a depth of clarity that can only otherwise be achieved with many more coats of a conventional varnish. The epoxy coating will protect most surfaces from moisture ingress, and will also add strength to softwood surfaces. On horizontal surfaces, SP 320 may be poured on as a flow-coat, providing an instant, thick coating layer in just one application. Due to its low viscosity, and excellent wetting characteristics, SP 320 may also be used with lightweight glass reinforcements, such as RE210D, to provide a clear, sheathing layer. When this is further coated with extra layers of SP 320, the result is a glass-reinforced clear coating which is exceptionally strong and hard-wearing.</p>	
<p style="text-align: center;"><b>RESIN ADDITIIVES</b></p>	<p style="text-align: center;"><b>TECH</b></p>		
<p><b>ACCELERATOR</b>- This accelerator may be used to speed up the cure time. Add a small amount of accelerator to pre accelerated resin. Ensure that you mix the accelerator BEFORE you add catalyst. Accelerator might react violently with organic peroxides. It is therefore essential that you never bring the accelerator in direct contact with catalyst, this can lead to fire or explosion. Always store and transport accelerator separately from catalyst. Please refer to technical and safety datasheets before use.</p>			
<p><b>BENZOL CATALYST</b>- Benzol Catalyst with plasticizer. Ideal activator for fillers, mixes and body stoppers. Contains a red pigment which helps to ensure a proper mix.</p>			
<p><b>MEKP CATALYST</b>- ANDONOX KP-9 is a general purpose MEKP and is the workhorse of the Syrgis Performance Initiators line. ANDONOX KP-9 gives consistent room temperature performance with both resins and gelcoats. A reliable product of remarkable purity, ANDONOX KP-9 assures quality in almost every system. Suitable applications are: Hand lay-up, spray-up, RTM, continuous laminating, centrifugal casting, filament winding, polyester concrete and vacuum infusion.</p>			
<p><b>FLEXIBLE RESIN ADDITIVE</b>- An additive for polyester resin to improve elongation, flexibility, tenacity and impact resistance. Mix up to 10% of resin content.</p>			
<p><b>STYRENE</b>- Styrene additive used to thin resin, must not be used in more than 10% addition as this may effect the properties of the resin. Thinned resin may be used as a primer to aid adhesion with wood. Always test fully on small sample to ensure suitability for your project.</p>			
<p><b>WAX ADDITIVE</b>- Wax additive to make gelcoat into a flowcoat / topcoat for boat sheathing, ponds, roofing etc. Used at 1 - 2% to give a tack free surface.</p>			
<p style="text-align: center;"><b>RESINS</b></p>	<p style="text-align: center;"><b>TECH</b></p>		
<p><b>CASTING RESIN</b>- Low viscosity, low reactivity, pre-promoted to cure at room temperature when initiated with MEKP Catalyst. Cures an opaque brown colour. Pigments and fillers may be added for effect.</p>			
<p><b>CASTING RESIN - POLYLITE WATER CLEAR</b> - Water-white, clear casting resin designed for applications in which extreme clarity and absence of colour are required.</p>		<p><b>SP GURIT HANDIPACK MULTI PURPOSE EPOXY SYSTEM - 375ML KIT</b> - Handipack is a multi-purpose epoxy, supplied only in a small pack. It is designed for quick repair work and small scale construction jobs. The system is extremely reactive with a pot-life of just 8 minutes at 20°C. It is therefore best suited to small tasks, and should not be applied in thicknesses exceeding 3mm. The medium to low viscosity of the material enables it to be used for small laminating tasks, using lightweight glass fabrics, such as those from the SP-High Modulus's reinforcements range. The system's good clarity makes it a good sheathing matrix system</p>	
		<p><b>SP GURIT SPABOND 5 MINUTE EPOXY ADHESIVE SYSTEM</b> - Spabond 5-Minute uses SP's fast-setting technology. It combines outstanding bonding speed with a simple 1:1 by weight and by volume mix ratio. This thixotropic system is ideal for general bonding and repair work on a wide range of materials. Components bonded with Spabond 5 Minute demonstrate high bond strengths and can be handled after a very short period of time.</p>	

**EPOXY RESIN - SP MINIPUMPS** - Each pump body of the pair is identical and will fit either container of the SP 1kg solvent-free resin systems SP106, SP320 and SP115. However, each pump of the pair is fitted with an extension tube of correct length to reach exactly to the bottom of one container, so that there is a 'resin pump' and a 'hardener pump'. Each pump dispenses the same quantity of liquid (approx. 5ml) and therefore correct ratio is made by a number of strokes equivalent to the mix ratio on the resin pump (eg 5 strokes for 5:1 by volume mix ratio) for every one made on the hardener pump



**VOSS CHEMIE EPOXY GLOSSCOAT - EPOXY COATING SYSTEM** - Glosscoat is a cold curing, solvent free, transparent, easy flowing resin. It is cured with Glosscoat hardener. Decorative pictures, collages and coatings with a smooth, high gloss surface can be made. The colours can be separated by wire inlays (similar to lead borders) or allowed to flow into one another. A coating of Glosscoat enhances the effect of wood grain.



**ISOPHTHALIC RESIN** - Isophthalic (iso) resins are higher grade resins than ortho resins in that the molecular structure is denser. It is a special raw material utilized in corrosion resistant and/or premium grade polyester resins. These resins will exhibit a higher heat distortion temperature, higher strength, greater flexibility and are more waterproof than orthophthalic resins. These resins can be used for moderate corrosion resistance applications to a maximum temperature of 180° F. They exhibit good resistance to water, acids, weak bases, and hydrocarbons such as gasoline and oil. Applications: tanks, pipes, tooling, and others requiring high-strength retention, corrosion resistance and durability. Isophthalic polyester resin is now becoming the preferred material in industries such as marine where its superior water resistance is desirable



**LAMINAING RESIN - CRAY VALLEY ENCORE 30-** A general purpose LLOYD's Register of shipping approved polyester resin. This resin cures an opaque brown purple colour and is often used for translucent roof sheets. This resin is suitable for use in many areas of GRP work such as boat building & repair, car repair and mould making. It is cured using MEKP



**LAMINATING RESIN - CRAY VALLEY ENCORE 31-** This resin has similar qualities and uses as that of Encore 30 however this is a white resin and will cure with a white finish.



**LAMINATING RESIN - CRAY VALLEY EASYLAM-** Easylam is a new resin from one of the worlds leading resin manufacturers Cray Valley. Easylam can save upto 25% on material costs and upto 33% saving on labour costs. This new general purpose polyester resin has improved wet out, reduced fibre print and lower styrene content. Easylam can result in less glassfibre used with considerable labour savings for hand or spray lay up. Easylam is not Lloyds approved and so not suitable for boat building however it is ideal for general moulding where 2 or more layers of glass are used.



**RUBBING COMPOUNDS**

**TECH**

**AQUA BUFF COMPOUNDS** - Use this Aqua-Buff products to remove scratches from and polish composite patterns, plugs, masters and molds. Also use it to remove scratches from and to clean FRP parts, metals and painted surfaces. Easy application- apply with a brush or cloth. Various grades offerings different grit (Particle) sizes.



**SEALERS**

**TECH**

**G4 THINNERS** - For thinning G4, Bondaseal Clear, Woodseal and 15 Year White. Add 20% by volume to 1st coat when sealing dense surfaces such as oily wood.



**BONDA SEAL CLEAR** - Bondaseal Clear has the following uses. For sealing all surfaces with a clear, non-yellowing U.V. light stable non-porous seal. For transparent wood finishes - all types of timber flooring, wall and ceiling coverings, boats and furniture, impregnation of masonry, concrete, asbestos, cement and stone floors, coating of metal surfaces, to prevent chemical and airborne contamination, to retain the appearance of finished surfaces, preventing oxidation and tarnishing of metal.



**G4 DAMP SEAL** - A moisture cured damp sealant, hard wearing concrete floor seal. When sheathing boat hulls, G4 is used as a bonding primer between the polyester resin and the wood and/or metal. The hull should be dry and down to the bare wood or metal, apply the G4, and leave until finger tacky (but no longer than 4 hours), then the GRP laminate can be applied. Consumption is approximately 200g/sq mt on wood and 165g/sq mt on metal.



**G4 POND SEALER** - Effective sealer for concrete ponds, statues, flagstones and waterfalls. G4 is a moisture cured, one component polyurethane product which forms a non-porous, tough, durable but flexible seal on concrete. Prevents lime leaching into your pond from concrete and stops water leaking out. Paint straight onto the concrete, no primer needed.



**SILICONE**

**GENERAL PURPOSE RTV SILICONE-** Our Silicone has been formulated for easy mixing by hand, with colour coded components giving a visual aid to ensure mixing is adequate. The two components mix easily and because of the low viscosity most grades can be used without processing in a vacuum chamber. This silicone is suited to moulding a wide variety of items and materials.



**HIGH TEMPERATURE RTV SILICONE** - Silastic 3120 Base is suited for the reproduction of figurines, art objects and similar items where no deep undercuts or complex shapes are present and where maximum heat stability is required. It is suitable for centrifugal casting of low melt alloys, e.g. metal soldiers etc. Outstanding release properties, High hardness (60 Shore A) for mould rigidity. High temperature stability to 250° C



**SKIN SAFE RTV SILICONE - S ZA 40 THIXO FAST** - this is a very solid silicone rubber, which can be applied to the skin to create the shape of the face, hands or other parts of the body. Rubber vulcanised quickly at room temperature and accurately conveys the shape of the body of any initial model - better and faster than with any alginate. Unlike alginate forms, suitable only for a single use, flexible shell mold of ZA 40 THIXO FAST has been successfully used in multiple fills most complex and exotic products. For the casting of final products manufactured in the form of ZA 40 THIXO FAST, you can use molding materials based on polyurethane, polyester and epoxy resins, gypsum, both conventional and polymer, various types of concrete, the mixture for the production of ceramics, and other similar materials.



**ZHERMACK ZA13 TRANSLUCENT RTV SILICONE SHORE A13 - ZA 13 MOULD WT 45** is a bi-component addition cured RTV silicone rubber, particularly recommended for making object in polyester resins and concrete. Compatible with all plasters, coatings, polyurethane resins, acrylic resins and polyester resins.



**SILICONE CATALYST** - For use with our general purpose rtv silicone Base (Dow Corning 3495), It can also be used with any of the Dow Corning 34 series elastomers. Available in Red & Clear



**SILICONE PIGMENTS** - Pigment can be used with condensation cure & addition cure silicones. Mixing pigments into a white silicone base can result in lighter shades of the colour intended. e.g black pigment will become grey / dark grey. For optimum results we recommend using these silicone pigments with translucent or non pigmented silicones bases. If you are purchasing silicone with a pigmented catalyst you will need to purchase a clear catalyst as the coloured catalyst will have an obvious effect on the silicone pigment.



**SILICONE THIXO-** Thixotropic Agent is an additive for RTV Silicone to thicken the silicone. The liquid silicone is thickened to make it more suitable to creating certain types of moulds. With correct amounts of this agent the silicone may be smoothed on to the original. For best results we would always recommend applying a first coat of unthickened Silicone to create a bubble free mould. This agent may be added up to 25g per 1 kilo of Silicone.



**FOR INFORMATION AND PRICING ON RELEASE AGENTS FOR USE WITH SILICONE PLEASE LOOK UNDER RELEASE AGENTS.**





## SUNDRIES

<b>BARRIER CREAM</b> - Quality barrier cream for use within grp industry.	
<b>PVC APRONS</b> - Full length PVC apron.	
<b>RESIN BRUSHES</b> - Hard wearing, Good Quality, Bonded Bristles secured with a metal ferrule, Plastic handle suited for all GRP work.	
<b>BUCKETS</b> - Wide range of sizes from 1 Litre to 25 Litre, available with or without lids.	
<b>KNIVES</b> - Long blade knives and trimming knives. Replacement blades also available.	
<b>GLOVES</b> - Full range of latex and vinyl gloves in variety of sizes.	
<b>DRUM TAPS</b> - 1" and 2" taps for acetone and resin drums.	
<b>MUTTON CLOTH</b> - Quality mutton cloth.	
<b>MASKING TAPES</b> - Available in 25mm and 50mm widths.	
<b>MASKS</b> - Disposable and Multi-use masks available.	
<b>ROLLERS</b> - Wide range of rollers and frames to suit all GRP projects. Also stock of longhair and short hair sleeves.	
<b>HAND CLEANER</b> - Quality hand cleaner for removing dirt, grease and other industrial material.	
<b>OVERALLS</b> - Disposable lightweight overalls.	
<b>WEDGES</b> - Extremely useful when working with moulds. two sizes available.	

## VINAMOULD

Vinamold mould making compound can be used in the creation of a range of moulds from the simple to complex; available in three colours – representing 3 harnesses, each of which is ideal for a variety of casting materials. It is a highly plasticised PVC compound giving both a flexible and durable product that is non-toxic and meets with safety requirements for children's toys.

<b>VINAMOULD RED</b> - The most flexible – General purpose, particularly recommended for GRP laminates and Plaster	
<b>VINAMOULD WHITE</b> - Combines flexibility with toughness – Ideal for concrete and Polyester resin. The most flexible of the vinamould range.	

**VINAMOULD YELLOW** - The hardest material – For use with large moulds and thin sections. For use with all the recommended casting materials.



## HEMPEL PRODUCTS

### ANTIFOULS

**HEMPEL BOOTTOP ANTIFOUL** - An antifouling for boats of aluminium and other light-alloy metal. Primarily for use in water with relatively low to medium fouling potential



**HEMPEL CRUISING PERFORMER ANTIFOUL** - Cruising Performer Developed to maximise the qualities associated with erodible antifoulings, Cruising Performer has been specifically formulated to offer great all round performance. The very latest eroding technology reduces the build up of paint, maximizing cruising capability in all areas, whilst ensuring fouling is kept to a minimum. An excellent coverage rate and good colour stability ensures Cruising Performer offers you the very best in value. Suitable for use on all substrates except aluminium. For use below the waterline. Maximum launch time 3 months



**HEMPEL GLIDE SPEED ANTIFOUL** - An acrylic-based hard antifouling (insoluble matrix), with PTFE for a more smooth surface reducing friction. Contains a high amount of cuprous oxide and organic bioactive material. It changes to final colour after approximately 1 week of exposure to water.



**HEMPEL HARD RACING ANTIFOUL** - A hard antifouling (insoluble matrix) based on cuprous oxide. It changes to final colour after approximately 1 week of exposure to water. an antifouling for boats of glass fibre, wood, plywood, steel and ferro-cement. Do not use on aluminium or other light-alloy metals. Risk of corrosion in case of direct contact.



**HEMPEL TIGER XTRA ANTIFOUL** - TIGER XTRA antifouling is a high strength erodible antifouling which gives excellent protection against fouling under all conditions due to its improved performance system. For use below the waterline.



**HEMPEL MILLE DRIVE ANTIFOUL SPRAY** - A spray coat for the protection of propellers and outdrives. For use below the waterline.



### ANTI-SLIP ADDITIVES

**HEMPEL ANTI-SLIP PEARLS** - For mixing into HEMPEL'S POLY-BEST 55551 and HEMPEL'S MULTICOAT 51120, HEMPEL'S BRILLIANT ENAMEL 52250 and HEMPEL DECK COATING 5112D for decks and other areas where a non-skid surface is required. Also suit for use in paints and varnishes.



**HEMPEL ANTI-SLINT** - HEMPEL'S ANTI-SLINT 67500 is flame dried silica sand of which the average particle size is approximately 0.5 millimetres. Used to obtain anti-skid properties on decks and other areas where a skid-proof surface is required.










### CLEANERS / WAX / POLISH

**HEMPEL CLEAN & POLISH (69032)** - A high performance 3 in 1 liquid that cleans, polishes and protects in one application. For use on gelcoat, painted and varnished surfaces to clean, polish and protect, and leave a high gloss finish. Also removes swirl marks after compounding. Suitable for both manual and machine use





**HEMPEL CLEANING GEL (69017)** - A strong, high efficient, non abrasive cleaning gel. For removal of stubborn stains such as rust and exhaust staining, waterline deposits and fender marks on gelcoat and painted surfaces over small/local areas. Chemical process avoids the need to scrub the surface.




<p><b>HEMPLE CLEANING POWDER (67536)</b> - A strong, fine abrasive cleaning powder for tough stains. For removing tough deposits, stains and yellowing on gelcoat surfaces. Removes hull discoloration from soil deposits in fresh or brackish water and is particularly suitable for cleaning large areas such as non-slip decks where dirt accumulates.</p>	
<p><b>HEMPLE CLEANING SPRAY (69007)</b> - An easy to use, foaming cleaner spray, for removal of stains and marks on gelcoat and painted surfaces. Particularly good for cleaning deposits from the waterline areas. Chemical process avoids the need to scrub the surface.</p>	
<p><b>HEMPLE RENEW RUBBING LIQUID (69021)</b> - A fine abrasive rubbing compound. Restores and renews the gloss and colour to gelcoat and painted surfaces. For removal of light scratches, stains, oxidation and other irregularities from most surfaces including aluminium. Can be used for both manual and machine polishing</p>	
<p><b>HEMPLE RIB CLEAN (99351)</b> - A powerful, concentrated solvent-free cleaner and degreaser. For removal of dirt, grime, scuff marks, UV light degraded surface-layers and other contaminants on RIB tubes and hulls, inflatable/rubber boats, fenders, buoys and other rubber or vinyl surfaces.</p>	
<p><b>HEMPLE RIB RENEW STAIN REMOVER (69030)</b> - A cleaning compound, for RIB tubes, inflatable/rubber boats, fenders, buoys and other rubber or vinyl surfaces. For removal of difficult dirt, contaminants, grime and scuff marks on RIB tubes, inflatable/rubber boats, fenders, buoys and other rubber or vinyl surfaces, without causing damage to the surface.</p>	
<p><b>HEMPLE VINYL CONDITION &amp; PROTECT (69031)</b> - An easy to use liquid gel, to condition and leave a protective layer on external and internal vinyl and rubber surfaces. To protect against UV damage, keeping the material soft and flexible. HEMPEL'S VINYL CONDITION &amp; PROTECT 69031 leaves a smooth, water repellent, transparent glossy surface.</p>	
<p><b>HEMPLE WAX &amp; PROTECT (69033)</b> - A liquid wax for UV protection and a high gloss durable finish. For use on gelcoat, painted and varnished surfaces after polishing with HEMPEL'S CLEAN &amp; POLISH 69032 or HEMPEL'S CUSTOM MARINE POLISH 67445, producing a dirt-repellent, easy to clean surface. Suitable for both manual and machine use.</p>	



#### FILLERS

<p><b>HEMPLE EPOXY FILLER</b> - As a filler for metals, hardwood, glass fibre and other rigid materials. On large surfaces especially suited for smooth filling. For filling of minor pinholes in weldings, cavities in propellers, keels and similar. Repair of osmosis damage in glass fibre reinforced polyester hulls.</p>	
<p><b>HEMPLE PROFILLER LIGHT WEIGHT EPOXY FILLER</b> - A two-component, lightweight epoxy filler, featuring high adhesion and water resistance, when fully cured is easy to sand. Can be applied in coats up to 10-12 mm for a uniform smooth film build.</p>	


#### OSMOSIS TREATMENT

<p><b>HEMPLE GELPROTECT SFE200 EPOXY PRIMER</b> - A two component amine adduct cured solvent-free epoxy high build primer. It forms a hard, tough and water resistant coating. Use as a primer below the waterline on boats made of glass fibre reinforced polyester or steel. Also for prevention and repair of osmotic blistering in the glass fibre reinforced polyester.</p>	
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#### SINGLE PACK COATINGS

<p><b>HEMPLE BRILLIANT ENAMEL</b> - HEMPEL'S BRILLIANT ENAMEL 52250 is an urethane alkyd enamel with high gloss and good colour retention. Flexible and resistant to salt water and spillage of mineral oil. Use as a finishing coat in alkyd systems on interior and exterior surfaces above the waterline.</p>	
<p><b>HEMPLE MULTICOAT</b> - MultiCoat, a high opacity satin topcoat and primer, providing excellent durability, ideal for all areas above the waterline where a semi-gloss durable topcoat is required. It can also be used as a complete coating system onto new or bare wood. Area of use : As a topcoat on decks and walkways.</p>	


#### TWO PACK COATINGS

<p><b>HEMPLE POLYGLOSS TOPCOAT</b> - A two pack polyurethane topcoat, giving a high gloss finish which is extremely durable and resistant to UV degradation and abrasion. It is well known for its ease of use and high performance properties. For use above the waterline. Use as a finishing coat on surfaces above the waterline on glass fibre, aluminium, steel, ferrocement, plywood and other wood, where substrate movement is minimal.</p>	
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#### TEAK TREATMENTS






<p><b>HEMPLE TEAK CLEANER</b> - A cleaning powder for teak. Harmless to glass fibre, painted or varnished surfaces. Avoid contact with stainless steel. Especially suited for large areas like decks.</p>	
<p><b>HEMPLE TEAK COLOUR RESTORER</b> - A pigmented wood oil containing anti-mould agents to prevent discoloration. The wood obtains a golden colour after application. For use on new as well as on wood previously treated with oils or wood preservatives including teak. Not for deck areas.</p>	
<p><b>HEMPLE TEAK OIL</b> - Based on alkyd resin and drying oils with low viscosity. Good penetration ability and weather resistance. Contains antimould agents..For use as a wood treatment oil on new teak and teak previously treated with oil based products, interior and exterior. Not suited for varnished wood.</p>	

#### PRIMERS & UNDERCOATS

<p><b>HEMPLE ANTIFOULING PRIMER</b> - Hempels Antifouling Primer is a single component primer and tiecoat for use below the waterline. Formulated for use with white and light coloured antifoulings. Fast drying with excellent waterproofing properties. Can be applied directly onto a prepared or primed hull before antifouling. Also for use as a tie coat between existing and new antifouling.</p>	
<p><b>HEMPLE EPOXY PRIMER UNDERCOAT</b> - A two component epoxy high build paint. It forms a hard and tough coating resistant to water and petroleum products. For use as a primer below and above the water line on boats made of aluminium, glass fibre reinforced polyester, plywood, steel and ferrocement. Also for protection of keels and rudders.</p>	
<p><b>HEMPLE GREY METALLIC PRIMER</b> - A conventional primer, containing aluminium flakes which gives excellent water repelling properties. Durable and flexible for use on all substrates especially wood, under a conventional paint system. For use above the waterline.</p>	
<p><b>HEMPLE PRIMER UNDERCOAT</b> - A quick drying, high opacity primer and undercoat providing excellent durability and surface stability in preparation for overcoating with single pack systems. Suitable as a primer for steel and as an undercoat for Brilliant Enamel or Yacht Enamel. For use above the waterline</p>	
<p><b>HEMPLE UNDERWATER PRIMER</b> - An underwater primer with excellent waterproofing properties, for use on all substrates. Also as a tiecoat that can be used between antifouling and hull primer systems, and between and existing antifouling and a new antifouling. For use below the waterline. Recommended use: As a maintenance primer for antifouling coatings on wooden boats.</p>	
<p><b>HEMPLE PROP PRIMER</b> - An Anti-corrosive primer for a large variety of substrates. Particularly recommended as a primer for outdrives and propellers. Pro Primer has very good adherence to most substrates. Fast drying, easy to apply with a matt finish. Overcoat with appropriate antifouling.</p>	












#### VARNISHES

<p><b>HEMPLE DURA-GLOSS VARNISH</b> - A quick-drying, clear urethane alkyd varnish. It has good resistance to seawater, sunlight and adverse weather conditions. For use on new wood as well as on previously varnished wood, interior and exterior, above the water line.</p>	
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<p><b>HEMPEL DURA-SATIN VARNISH</b> - A quick-drying, silk gloss urethane alkyd varnish. It has good resistance to seawater, sunlight and adverse weather conditions. The quality is related to HEMPEL'S DURA-GLOSS VARNISH but with a silk gloss finish. For use on new wood as well as previously varnished wood, interior and exterior, above the waterline.</p>	
<p><b>HEMPEL FAVOURITE VARNISH</b> - An air-drying, clear alkyd varnish with tung oil. It has good resistance to seawater, sunlight and adverse weather conditions. For use on new wood as well as on previously varnished wood, interior and exterior, above the waterline.</p>	
<p><b>HEMPEL WOOD SEAL</b> - A clear moisture cured, one component polyurethane sealer. It is a high penetrating, clear, rot inhibiting sealer which is the best start to a new varnish or paint system on bare wood. May also be used on other porous surfaces. For use: as a sealer for wood prior to priming with one or two component, high performance paints or varnishes. Above the waterline and below the waterline, interior and exterior, on teak, plywood and similar types of hard wood.</p>	
<p><b>HEMPELS CLASSIC VARNISH</b> - An air-drying, clear alkyd varnish with tung oil. It has good resistance to seawater, sunlight and adverse weather conditions. For use on new wood as well as on previously varnished wood, interior and exterior, above the waterline.</p>	
<p><b>HEMPELS DIAMOND VARNISH</b> - A clear non-yellowing two-component polyurethane varnish. It gives a durable, mirrorlike finish, resistant to weathering. For use above the waterline, interior and exterior, on teak, plywood and other wood which does not "work" too much.</p>	

## STOCK PIGMENT RANGE

### STOCK POLYESTER PIGMENTS



 <b>SUPER WHITE (PCP4789)</b>	 <b>BROKEN WHITE (PCP3975)</b>
 <b>OFF WHITE (PCP8981)</b>	 <b>CREAM (PCP4161)</b>
 <b>IVORY (PCP3730)</b>	 <b>DENSE BLACK (PCP3602)</b>
 <b>AIRCRAFT GREY (PCP3924)</b>	 <b>PALE GREY (PCP3965)</b>
 <b>SIGNAL RED (PCP3856)</b>	 <b>SMALT (PCP8980)</b>
 <b>MAZARINE BLUE (PCP4555)</b>	 <b>NAVY BLUE (PCP3748)</b>
 <b>OXFORD BLUE (PCP4546)</b>	 <b>TEAK (PCP4158)</b>

 <b>GOLDEN BROWN (PCP6372)</b>	 <b>GOLDEN YELLOW (PCP3754)</b>
 <b>TANGERINE (PCP3957)</b>	 <b>BRITISH RACING GREEN (PCP3712)</b>
 <b>YACHT GREEN (PCP4555)</b>	 <b>5 COLOUR MULTIPACK</b>

### STOCK TRANSPARENT POLYESTER PIGMENTS

 <b>TRANS - BLUE (6742)</b>	 <b>TRANS - BLUE (6798)</b>
 <b>TRANS - MAGENTA (20162)</b>	 <b>TRANS - RED (6797)</b>
 <b>TRANS - AMBER (6796)</b>	 <b>TRANS - GREEN (6795)</b>
 <b>TRANS - GREEN (8618)</b>	 <b>TRANS - YELLOW (6794)</b>

### STOCK POLYCHROMATIC / METALLIC POLYESTER PIGMENTS

 <b>METALLIC - BLUE (5854)</b>	 <b>METALLIC - MUSTARD (5868)</b>
 <b>METALLIC - GREY (27640)</b>	 <b>SIMULATED COP/BRNZ (17825)</b>
 <b>SIMULATED COPPER (17827)</b>	 <b>SIMULATED BRONZE (11348)</b>
 <b>SIMULATED GOLD (17826)</b>	

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