

WATER BASED GLASS FIBRE SYSTEM

This page was updated 23/09/11

Flints stock a wide range of glass fibre products for use in the theatre and display industries. Jesmonite are the leading manufacturers of water based glass fibre systems with many years of experience in the field. For solvent based systems see page 1.71.

WATER BASED GLASS FIBRE SYSTEM



Jesmonite Water Based Glass Fibre System

Jesmonite is a water based system with no harmful solvents. You can wash your brushes in water. It can even be applied directly to polystyrene. If using moulds, the lack of solvents means that they will last virtually indefinitely. Jesmonite AC300 and AC100 have Class 0 fire certificates so they are ideal for use in theatres and for theming applications. Work can be carried out almost anywhere as there are no requirements for expensive fume extraction systems. It has very little odour so staff and public can continue with little disruption. The products are supplied as a liquid and powder which are mixed in a ratio of 1 part liquid to 2.5 parts powder by weight using a high shear mixing blade in an electric drill at around 1000rpm for about 45 seconds. The resulting mix can be poured into a mould or it can be used to form a strong laminate. The mix can be stiffened for vertical surfaces with the addition of a little thixotrope or retarded by adding retarder. The products are supplied with full instructions.

Safety Data Jesmonite Acrylic Composites are classified as low hazard products with little or no toxicity. First time users should ask for safety data sheets or download them from flints.co.uk. Operatives should be provided with:

- Eye protection-goggles or glasses [see page 3.43].
- Dust respirators [see page 3.43].
- Hand protection-rubber gloves [see page 3.44].

How much will I need?

To estimate coverage, a 5mm thick laminated panel in Jesmonite will weigh about 8.725kgs per m² when wet and 8.25kgs per m² when dry. Therefore a 70kg kit will cover about 8 square metres.

JESMONITE AC300



AC300 A good value product with full fire certification to Class 0, perfect for all indoor casting and laminating applications and for short term use out of doors [see AC100 below for external use].

Great value for general use

Mix ratio 1 part resin to 2.5 parts powder by weight [although for covering polystyrene a 1:3 ratio is often used].

AC300	powder	resin	kit size	code	price
Starter kit				DISCONTINUED	
Small kit	1x25kg	1x10kg	35kg	JESAC30035K	£58.65
Large kit	2x25kg	1x20kg	70kg	JESAC30070K	£111.40
Powder only	25kg			JESACPOW25	£25.49
Resin only		10kg		JESAC30010	£33.16
Resin only		20kg		JESAC30020	£60.42

Bulk Orders For large projects we can supply a 420kg kit of AC300 delivered on a pallet direct to your workshop. The powder on these bulk deliveries is supplied in bags. Our price includes UK mainland delivery. Allow 3-5 days.



AC300 Bulk	powder	resin	kit size	code	price
Bulk kit	12x25kg	6x20kg	420kg	JESAC300420K	£540.00

1.69

JESMONITE AC100

new

AC100 has now been reformulated and replaces the old AC400. It is a weather resistant product with full fire certification for Class 0 and it is also suitable for exterior use. It is harder and has a higher impact strength than AC300. If being used outside the product should be protected with Clear Top Coat [see page 1.70].

Harder, stronger and better weather resistance

Mix ratio 1 part resin to 2.5 parts powder by weight [although for covering polystyrene a 1:3 ratio is often used].

AC100	powder	resin	kit size	code	price
Starter kit				DISCONTINUED	
Small kit	1x15kg	1x5kg	20kg	JESAC10020K	£52.50
Large kit	3x25kg	1x25kg	100kg	JESAC10070K	£198.47
Bulk kit	12x25kg[bags]	4x25kg	400kg	JESAC100400K	£667.37
Powder only	3kg			JESACPOW3	£11.36
Powder only	15kg			JESACPOW15	£21.30
Powder only	25kg			JESACPOW25	£25.49
Powder only*	10x25kg	[supplied bagged]		JESACPOW250	£158.50
Resin only		1kg		JESAC1001	£8.52
Resin only		5kg		JESAC1005	£31.20
Resin only		25kg		JESAC10025R	£123.00
Resin only*		120kg		JESAC100120	£511.00

* These items are sent direct to your workshops, please allow 4-5 days.

Like a demonstration?

Flints can organise a demonstration for interested groups.



Flints can also supply Jesmonite 720 and 730, please phone for details.

JESMONITE ADDITIVES

Jesmonite Retarder The pot life of the mixed Jesmonite at 15-18°C is from 8-15 minutes. This can be extended to up to 30 minutes by adding 2-6g of retarder per kg prior to adding the powder.

Jesmonite Retarder	size	code	price
	1kg	JES1R	£6.26
	5kg	JES5R	£22.65

Jesmonite Thixotrope Used in the preparation of Jesmonite gel coats to control viscosity so that the material will not slump or drape on vertical surfaces. Add drop by drop until the desired consistency is achieved.

Jesmonite Thixotrope	size	code	price
	1kg	JES1TH	£13.87
	5kg	JES5TH	£55.43

Jesmonite Clear Top Coat Water based clear acrylic coating suitable as a sealer for Jesmonite being used outside or as a vehicle for distressing. Especially recommended for pigmented gel coats being used outside.

Jesmonite Top Coat	size	code	price
	1kg	JES1CTC	£12.02
	5kg	JES5CTC	£48.38

Jesmonite Composite Pigments Add up to 20g per kilo. We have now introduced a 200g pot size for smaller jobs. As Jesmonite is waterbased it is tempting to tint it with waterbased scenic paints. However this is not to be advised as they can be detrimental to the curing chemistry.

Jesmonite Composite Pigments	code	200g	code	1kg
White	JESIWHT2	£4.65	JESIWHT	£10.73
Black	JES1BLK2	£4.65	JES1BLK	£10.73
Red Oxide	JESIRO2	£5.48	JESIRO	£14.10
Yellow Oxide	JESIWYO2	£5.48	JESIWYO	£14.10
Coade Brown	JES1C2	£5.48	JES1C	£14.10
Terracotta	JES1T2	£5.48	JES1T	£14.10
Bright Red	JES1BR2	£8.03	JES1BR	£18.53
Blue	JES1B2	£8.03	JES1B	£18.53
Bright Yellow	JES1BY2	£9.23	JES1BY	£21.38
Green	JES1G2	£9.23	JES1G	£21.38

Metallic Powders

Please see page 1.71 for the metallic powder colours available.

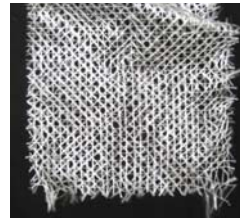
Jesmonite Stone Fillers These stone fillers can be added to the AC300 or AC100 gel coat to achieve the desired stone effect. The mix ratio is liquid 330g, powder 670g, and stone filler 600-1000g. Mix the liquid and powder first then add the stone. ▶▶

Stone Fillers	code	30kg kit
White Marble	JESFIL2X	£62.00
Yellow Sandstone	JESFIL1X	£62.00
Silver/Grey Granite	JESFIL3X	£62.00
Portland Stone	JESFIL4X	£62.00
Bath Stone	JESFIL5X	£62.00
Natural Stone	JESFIL6X	£62.00

(30)

This section was updated 19/05/11

JESMONITE REINFORCEMENTS



Stitched Quadraxial Glass Fabric Conventional glass matt fabrics are held together with a weak adhesive. The strong solvents in conventional resin systems will break down the adhesive so the fabric becomes pliable and is easy to use. As

Jesmonite contains no solvents, the fabric would remain stiff and unworkable. Quadraxial fabric has been specially developed with no adhesives for use with Jesmonite. It can be easily moulded into complex shapes and will resist high impacts. The open weave of the fabric makes it very easy to wet through. Generally two layers are required for a laminate 5-6mm thick. The composite between each layer can be mixed with 6mm chopped glass strands to form a thick paste which will separate the two layers of quadraxial fabric creating a rigid truss effect.

Quadraxial Stitched Fabric 220g/m²

roll width	roll length	Square area	code	price
1250mm	20m	25 sq m	JES25QGF	£63.18
1250mm	100m	125 sq m	JES125QGFR	£286.60
1250mm	per linear m		JESIQGF	£4.30

Chopped Glass Strands These can be mixed with the composite [2.5% by weight] to act as reinforcement between the two layers of glass cloth when laminating. 1% by weight can be added to reinforce castings. May also be used with solvent based systems.

Chopped Strands	size	code	price
6mm	1kg	JESCS6	£6.30
13mm	1kg	JESCS13	£6.30

MOULD RELEASE

Mould Release Silicon rubber lined moulds require no release agent. Plaster and timber moulds should be sealed with shellac or polyurethane varnish. GRP moulds do not require sealing. Soft wax pastes wiped on with a cloth work best. We stock APW wax from Vosschemies. Allow 50gm/sq metre per coat. When casting with Jesmonite it is preferable to carefully apply by brush a coat onto the mould first to avoid entrapped air before pouring in the bulk.

Mould Release	size	code	price
	500g	JESRW	£14.46

ANCILLARY PRODUCTS FOR USE WITH JESMONITE



Olfa Cutter A rotary disc cutter for easy cutting of glass reinforcing fabrics.

	code	price
Olfa Cutter	JESDC	£11.02
Spare Blade	JESDCB	£3.65



Mixing Blades Essential for effective mixing of Jesmonite composites. The design of these blades creates a vortex which does not introduce bubbles into the mix.

Mixing Blades	code	price
Large high shear blade for 5-20kg mixes	JESLMB	£32.00
Light duty high shear blade for small mixes	JESLDMB	£10.13

new

Digital Scales These portable scales can be battery or mains operated. We sell them in two sizes: up to 5kg in 1g increments [ideal for weighing pigments] and a bigger version which will weigh up to 35kg in 20g increments. Ideal for weighing Jesmonite.

Scales	code	price
up to 5kg	JESATP5	£75.00
up to 35kg	JESATP35	£149.00

SOLVENT BASED GLASS FIBRE SYSTEM

This section was updated 10/04/12

LAY UP RESINS

For laminating rollers see page 1.74



Resin 'A' Lay Up Resin

[Crystic 47PA] This is a general purpose resin which is used for both casting and laminating. Resin A is filled and has a matt finish. It is suitable for hand props and interior work but is not fire retardant. Add 2ml of catalyst M to 100g of resin. For Power Wipes see page 3.64.

Resin 'A' Lay Up Resin	code	1kg	5kg
	PRO400/401	£13.72	£39.60
Catalyst M	code	100g	
	PRO422	£3.26	



Fire Retardant Lay Up Resin

[Crystic 356PA] This filled resin will comply with BS 476 part 6 and 7 Class 1 or Class 0 [as defined in section B of the building regs 1985]. It is particularly suitable for building larger pieces of scenery and mouldings. Add 2ml of catalyst per 100g of resin.

Crystic 356PA	code	25kg
	PRO410	£134.92
Catalyst M	code	500g
	PRO423	£9.20

new



Marine Grade Resins [Crystic 2.406PA] This is a low styrene resin with good wet out properties. The geltime is approximately 11 minutes. Water absorption 14mg. Tensile strength 54MPa. Tensile modulus 3.7GPa. Elongation at break 1.7%. Lloyds approved.

Crystic 2.406PA	code	25kg
	PRO2406PA	£109.53
Catalyst M	code	500g
	PRO423	£9.20

GELCOATS



Crystic Resin 'B' Gelcoat [65PA] This gelcoat has excellent weather and water resistance with low taint. If used with a fire retardant lay up resin it will comply with BS476 part 7. Add 2ml of catalyst per 100g of resin. This gelcoat is also widely used in the marine industry. Gel time 7-12 minutes. Water absorption 18mg. Tensile strength 75MPa. Tensile modulus 3.5GPa. Elongation at break 3%. Hardness 42 Barcol. Lloyds approved.

Resin 'B'	code	1kg	5kg	25kg
	PRO4XX	£13.82	£41.10	£117.21
		[02]	[03]	[12]
Catalyst M	code	100g	500g	
	PRO42X	£3.26	£9.20	
		[2]	[3]	

Flints can supply Gap Filling Bonding Pastes to order [90-78PA]

LAMINATING BRUSHES



Laminating Brushes Chinese brushes with unpainted handles which are ideal for working with resin. See also laminating rollers on page 1.74.

Laminating Brushes code	each	code	each	
1/2"	PBR159	£0.35	1" PBR160	£0.45
1 1/2"	PBR161	£0.50	2" PBR162	£0.65
2 1/2"	PBR1621	£0.80	3" PBR163	£1.00
4"	PBR164	£1.60		

CLEAR CASTING RESIN



Embedding Resin (Clear Casting)

This embedding resin can be used for making small props and costume jewellery. Items can be embedded in the resin. Moulds can be made from glass [with a release agent] or polythene lined containers but flexible rubber is not suitable. Add 1-2ml of Catalyst M per kg.

Embedding Resin (clear casting)	code	1kg	5kg
	PRO40X	£19.25	£49.82
		[4]	[5]
Catalyst M	code	100g	
	PRO422	£3.26	

RESIN ADDITIVES

Pigments (Crystic Pigment Pastes)

The resins can be tinted using these pigments. Do not add more than 100g per kilo of resin B or 50g per kg of resin A. A further 22 colours are available but only in 25kg drums.

Pigments		code	500g
Yellow	[contains lead]	PROPIG1	£11.06
White		PROPIG2	£10.61
Black		PROPIG3	£10.61
Blue		PROPIG4	£11.51
Green	[contains lead]	PROPIG5	£11.51
Cream		PROPIG6	£11.06
Brown	[contains lead]	PROPIG7	£11.06
Orange	[contains lead]	PROPIG8	£11.51
Red	[contains lead]	PROPIG9	£12.81
Grey		PROPIG10	£11.06

Metallic Powders

For metallic looking castings make up a mix of resin and metallic powder allowing 2ml of catalyst M per 100g of resin. The dull casting will need buffing with wire wool and metal polish to bring out the realistic effect. An aged effect can be obtained by adding one part of graphite powder per ten parts of metallic powder. Flints also sell metallic "powders" for making paint but they are not suitable for this application.

Metallic Powders		code	500g	2kg	5kg
Maximum powder resin ratio					
Aluminium	1:1	PRO453/452	£11.87	----	£73.26
Brass	5:1	PRO455/454	£15.24	----	£129.14
Bronze	7:1	PRO451/450	£16.19	----	£131.41
Copper	3:1	PRO457/456	£16.34	----	£133.65
Graphite	see text	PAT8663	----	£17.78	----

REINFORCEMENTS



Chopped Strand Mat 450g/m [type CTG]

This is the most popular weight of chopped strand mat [CSM] suitable for most laminating. Use of a fin roller or paddle roller [see page 1.74] will greatly aid effective wetting out, essential for strong long-lasting laminates. The mat comes 1m wide and is available per metre or by a 37kg box containing a roll of approx 76 metres. Not suitable for use with Jesmonite.

Reinforcements	code	per m	per box [76m]
	PRO430	£2.56	£104.88

For chopped strands see page 1.70.

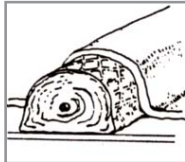
This section was updated 17/01/12

Surfacing Tissue [ACM1] To provide a smoother finish to laminating work a surfacing tissue can be applied. The tissue is 1m wide.

Surfacing Tissue (ACM1)	code	per m	per roll[250m]
	PRO433	£1.28	£260.00

Woven Roving 600g/m Woven roving is used to obtain higher strength weight ratios than is possible with chopped strand mat [CSM]. Available per roll approximately 40kg [72m]

Woven Roving 600g/m	code	per m	per roll[72m]
920mm wide	PRO436	£3.62	£147.00



Paper Rope To stiffen large areas of glass reinforced fibre, paper rope can be used to act as formers for laminated ribs on the rear of the structure.

[1" diameter]	code	per m	per coil[100m]
	PRO123	£0.91	£70.66

For other sizes of Paper Rope see page 1.57.

1.72

FILLER POWDERS



Glass Bubbles These hollow spheres serve to increase the volume and decrease the density of any resin system and are used in adhesives and to make easily sanded filling and fairing compounds. In the theatre industry, they are added to textures such as Idenden to reduce the weight. Suitable for use below the waterline.



Glass Bubbles	approx volume	code	each
.12kg	1-1.5L	FILA230005	£10.07
.3kg	3L	FILA230001	£15.98
5kg	50L	FILA230003	£145.89

Filler Powders Inert fillers are used to produce a slurry for resin casting. A 50/50 resin/filler mix is common.

Filler Powders	code	25kg
	PRO470	£19.44



new

SP Micro Fibres These 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.

Product Details: Composition: Milled bleached cellulose wood pulp.
Appearance: White 'fluffy' fibrous consistency.
Particle Size: 200 - 300 microns.
Particle Density: Particles absorb resin.
Bulk Density: 100g/litre approx.

SP Micro Fibres	code	price
0.1kg Pot	ADHA215004	£3.89
0.5kg Tub	ADHA215003	£9.59

FLOW MODIFIER

Flow Modifier - Colloidal Silica When added to resin with other filler powders, the colloidal silica will act as a thickening agent to prevent sagging on vertical surfaces. A typical mix would be .445L of resin, .145L of glass bubbles and .011L of colloidal silica.

Colloidal Silica	approx. volume	code	price
.05kg	1L	FILA220002	£5.85
.25kg	5L	FILA220003	£8.98

EPOXY RESINS BY SP SYSTEMS



SP106 Multi-Purpose Epoxy System

This is a simple to use, all-purpose epoxy which can be used for gluing, coating, laminating and filling. It has been developed over 15 years as the primary epoxy system for the repair of wooden boats and is now widely used in many other applications. Add glass bubbles to make a good, easy to sand filler or add Micro Fibres to provide a strong gap filling adhesive. We can supply larger sizes to order. For user instructions visit flints.co.uk/safety.html

See also Polyproof and Balotan on page 1.79

SP 106 Multi Purpose Epoxy	resin/fast hardener	code	price
Handipack [resin, hardener, pumps]	250ml/125ml	ADHF520012	£23.64
3.02kg pack	2.56kg/.46kg	ADHF510041	£51.53
10kg resin only	10kg resin	ADHF510004	£151.52
1.8kg fast hardener (for 10kg)	1.8kg hardener	ADHF510019	£44.25
1.8kg slow hardener (for 10kg)	1.8kg hardener	ADHF510031	£44.25
1kg pack c/w fast hardener		ADHF510037	£29.77
1kg pack c/w slow hardener		ADHF510038	£29.77

MOULDMAKING



Red Vinamould This is a flexible self releasing and re-usable mould making material suitable for making up to ten items from each mould. The vinamould melts at 140-150°C and is poured over the item to be reproduced. To melt the vinamould cut it into small pieces and use either a melting pot or a double skinned pot with an air gap rather than a water jacket which would be too cool. Vinamould machines are available in larger sizes for regular users.

Vinamould	code	1kg [loose]	25kg
	PRO44x	£6.25	£121.53
		[1]	[2]
Melting Pots [2.5L]	PRODPS25		£399.95

Flints can supply any SP Epoxy, Jesmonite or Scott Bader Glass Fibre products. Just give us a bell.



Silicone Rubber An excellent general purpose silicone rubber used for mould making where minute surface detail needs to be reproduced and deep undercuts are present. Silicone rubber has virtually no shrinkage and therefore will accurately reproduce dimensions and is an extremely durable material. All packs include a curing agent. To thicken silicone rubber and enable it to be 'battered up' onto vertical surfaces to create a mould add Thixotrope agent.

Silicone Rubber	size	code	price
inc curing agent	500g	PRO1011352	£21.73
inc curing agent	2kg	PRO1011369	£69.85
Thixotrope	size	code	price
for 500g silicone rubber	15g	PRO1011437	£4.25
for 2kg silicone rubber	60g	PRO1011444	£8.50

See also Skinsil Silicon and Alginate on page 1.58.



Slush Latex A popular latex generally used for cast moulding where the latex is poured into a plaster mould. The latex is sensitized to give a speedy build up on the plaster. Thorough drying takes place over 24 hours. The latex should be detacked with talc before removing from the mould. See website www.flints.co.uk/safety.html for full data sheets.

Slush Latex	code	5L	4x5L
	PAT848	£56.68	£204.00



Dipping Latex Latex is a natural air drying liquid rubber used to make thin elastic self releasing-moulds. It is ideal for making small moulds without too much detail. It is the simplest of the mould materials as the object is simply dipped into the latex repeatedly until a thickness has built up. Allow to dry for 24hrs before removing using talc to detack.

Dipping Latex	code	100g	5L	20L
	PAT845X[X]		£27.92	£116.58
Latex thickener	PAT844	£2.87	[5]	[20]

Fine Casting Plaster This is a very fine plaster intended for casting. Plaster moulds are normally only used once and are referred to as waste moulds. The addition of a little PVA will strengthen the mould. The original is generally modelled in clay. It must be treated with a release agent before use. To seal moulds prior to using resin based systems see G4

Mould Plaster	code	2.5kg	code	25kg
Fine Casting Plaster	PRO4622	£7.98	PRO4621	£13.50

new

Prestia Classic Casting Plaster A very consistent casting plaster, widely used for ornamental plaster moulding both for reverse moulds and castings. Excellent for sculpting, giving very fine detail.

Mould Plaster	code	5kg	code	25kg
Classic Casting Plaster	PROPCP5	£6.74	PROPCP25	£15.55

new

Plaster of Paris Very fine plaster which is quick setting, easy to prepare and easy to sand. Ideal for plastering, bedding or moulding. Thickness up to 150mm depth. Working time for moulding 10-15 minutes.

Plaster of Paris	code	price
4kg	PROPP4	£6.57



Clay Newclay is an off-white clay reinforced with nylon so it is not brittle. It can be fired in a kiln at between 1000-1250°C or can be hardened with one of the two available hardeners. Hardener H1 is brushed onto the model once dry and hardener H2 is mixed with the clay immediately prior to use.

Clay	code	price
1kg	PRO461	£4.97
4.5kg	PRO463	£10.33
12.5kg	PRO464	£22.04
Hardener H1 4oz	PRO461H1	£3.84
Hardener H2 8oz	PRO461HH2	£5.38



Modroc and Plaster Bandage An impregnated bandage which is activated by immersion in water. Used largely for life casts. The bandaging sets within 5 minutes and is hard in 30 minutes.

Available as bandage or cut in pieces known as Mod Roc. See also Varaform and Wonderflex on pages 1.59.

Plaster Bandage	code	per pack
50mm wide (4 per pack)	PRO4650	£4.94
80mm wide (2 per pack)	PRO4675	£6.72
Modroc	code	per bag/roll
6.5kg	PRO460	£22.12
0.5kg bag with 2 rolls	PROQSQR2	£5.99

MOISTURE BARRIER



G4 A popular moisture cured damp sealer. Excellent for sealing moulds as it will cure even on damp plaster. G4 can be used as a primer especially prior to bonding on GRP. It effectively seals damp walls after flood damage enabling decorations to be reinstated. Use it to protect timber or plywood troughs and surround used as stage water features. Rapid drying, G4 can be applied coat on coat without needing to sand between so long as the times are followed on the can. A very useful and effective product. Three coats will use approx 550g per square metre.

G4	code	1kg	2.5kg	5kg
G4	PRO1210X	£17.44	£35.56	£57.88
		[2]	[4]	[6]
G4 Thinner	PRO12232	£9.90		

RELEASE AGENTS

Soft Wax Mixture Paste Ideal for sealing the pores on a mould. Used to release hard polyurethane foams and casting materials from GRP, wood and silicone. Coverage 50g/per sq metre. Dries clear after use.

Soft Wax Mixture Paste	code	price
500g	JESRW	£13.77

COM300 Brushable Wax Easy to apply with a brush roller or spray. Apply two to four coats and buff to a highly polished film.

COM300 Brushable Wax	code	price
5L	PRO434	£32.15



Silicone Spray Release Agent Multi purpose medium duty release agent.

Formula 6	code	per 400ml
	PROF6	£8.67

TOOLS AND EQUIPMENT FOR USE WITH RESINS

Effective wetting out of glass matting with a fin or paddle roller is absolutely essential for a strong reliable laminate.



Swedtool Fin Roller A convenient 70x30mm diameter roller for laminating. The fin rollers are less likely to splash than paddle rollers.

Swedtool Fin Roller	code	each
70mm x 30mm	PRO620	£15.87



Swedtool Paddle Roller A handy and economical roller which is 70mm wide x 21mm diameter.

Swedtool Paddle Roller	code	each
70mm x 21mm	PRO621	£6.05



Catalyst Dispenser - The Swedtool Dosimeter Slide the pipe until the hole lines up with the desired level then just squeeze the bottle to transfer the correct amount of catalyst into the measuring head. Fitted with a lid to prevent splashes.

Dosimeter	code	750ml version
	PRO622	£13.09

Calibrated Measuring Beakers

A strong clear 700ml graduated pot for accurate measuring of two part mixtures.



Calibrated Beakers	code	each
Clear calibrated pot	PROA6406	£0.90
Lid for above	PROA6407	£1.21

Plastic Scoops For handling loose powders. The large scoop is 150x250mm and the small one is 100x150mm.



Plastic Scoops	code	each
small	PRO624	£2.00
large	PRO625	£4.95

Syringes Useful for catalysts. Graduated in 1ml sections.



Syringes	code	each
10ml version (pack of 10)	PRO623	£3.16
50ml version	SAF300866	£2.55

PLASTERERS SMALL TOOLS



Plasterers Small Tools Used to mix, spread and smooth plaster.

Leaf and Square	code	each
Z/x"	PROV40	£5.64
B/,"	PROV41	£5.64
Trowel and Square	code	each
Z/x"	PROV42	£5.64
B/,"	PROV43	£5.64

SCULPTORS TURNTABLES



Sculptors Stands Black varnished and chromium plated steel stand with 300mm diameter turning top plate. Height adjustable from 630mm to 1m. Fitted with folding legs for easy storage. A popular choice for colleges, as used by the London College of Fashion. Weight 9.5kg.

Sculptors Stand	code	each
	RO2038B	£115.00

POLYURETHANE FOAMS



Froth-Pak is a two part spray applied polyurethane foam system. Being spray applied, the foam can be used where pouring foam would be uncontrollable. Flints are distributors of this excellent product and offer it at very competitive prices. Froth Pak is perfect as a sculpting medium for carving. Use it to quickly to create rock faces or spray it onto tree armatures. Froth Pak will add structural strength to your constructions. It can be used as an insulation material to cut condensation, reduce sound and hold heat. Ideal for insulation of steel hulls and cooling boxes.

- ✓ No harmful HCFCs. ✓ New B2 fire rating.
- ✓ Full instructions and everything you need in the kit including spare nozzles. ✓ New low prices.

Froth Pak	size	code	price
FP180 Complete kit	17cub.ft (.48cub.m)	PROFP180K	£269.50
FP600 Complete Kit	50 cub.ft (1.41cub m)	PROFP600K	£489.50
FP600 Tank A only		PRO158102	£203.50
FP600 Tank B only		PRO158104	£203.50
HA15 Gun hose assembly only for FP600		PRO158457	£107.53
FP180 without gun		PRO6001122	£188.65
GHA9 Gun hose assembly only for FP180		PRP6000102	£94.05
Spare standard nozzles (each)		PRO158382	£1.46
Caulking nozzle yellow		PRO158385	£1.46
Fan spray nozzle blue		PRO158387	£1.46
Pouring nozzle black		PRO158390	£1.46

For large quantities [12 kits +] please phone for a special quote.



Two Part Polyurethane Foam Fire Retardant Formula [BS4735 1974] Flints supply the latest HCFC free system. The mix ratio is 1:1 by volume but the ISO component should

be added to the RES component. The best way to mix is with a paint mixer on a drill for 20sec. The foam will start to rise after 30-40 seconds and should be poured immediately. Foam thicknesses should be limited to 150mm for each pour. If being used in a mould, use a soft wax release agent [see page 1.73] and ensure adequate vents to allow excess air or material to escape. Failure to do this could be dangerous. Rise time: 180sec. The system is slightly more temperature sensitive than the old foams and they will cure best in temperatures up to 30° but temperatures below 18° could lead to a poor cure. We recommend that the liquids are stored in a warm area for several hours prior to use to warm right through.

Therefore for best results: warm through, accurately measure and mechanically mix. 1kg expands to approximately 1 cu. ft.

Two Part Polyurethane Foam	code	1kg	5kg	25kg
Part A	PAT84X[XX]	£12.53	£46.38	£143.00
		[0]	[2]	[21]
Part B	PAT84X[XX]	£12.53	£46.38	£143.00
		[1]	[3]	[31]

SINGLE COMPONENT POLYURETHANE FOAM



Expanding PU Spray Fire Retardant Foam A single component moisture curing polyurethane foam which seals, fills, fixes, bonds and insulates most construction materials. Once cured it becomes a semi rigid water resistant rot proof foam which can be sawn, cut, moulded and painted. Can be used to bond and fill blocks of polystyrene but it is not suitable on thin sheets. It is tack free in 20 minutes and cuttable after four hours. Yields approximately 20 litres free expanded. Fire rating BS476 part 20 1987.

Expanding PU Foam	code	750ml
	ADH057	£8.09

TWO COMPONENT SOFT FOAM



Flex Foam X A two part soft foam with a very fine cell structure ideally suited for soft costume props. Simply mix part A and part B in equal quantities and pour into the lowest point in your mould. The mould should have been treated with a non-silicone release agent [see page 1.73]. It will expand to approximately 6 times the original volume and is tack-free in 30 minutes. Supplied complete with full instructions.

FlexFoam X	size	code	price
	.89kg	PR0800	£23.73
	7.08kg	PR0801	£115.46
	35.38kg	PR0802	£516.35

POLYSTYRENE CUTTING MACHINES

HIRER



NOT YET AVAILABLE

Flints Polystyrene Cutter A robust machine designed to cut polystyrene up to 8ft thick using a thin heated wire. The machine also has a nichrome wire sculpting facility. Isolated low voltage safety output voltage. Continuously variable controls including amp meter to speed up wire settings. Comes complete with mains input lead and twin heavy duty output leads. 240v.

Why not hire? See page 3.78



COMING SOON!

Turbo 400 Polystyrene cutter		price
Polycutter Machine only	FHSPOL1	£745.00
Thin wire handle	FHSPOLYWH	£89.00
Sculpting handle	FHSPOLYSH	£59.00
Machine with Handles	FHSPOLYK	£849.00
Sculpting wire [per metre]	PROT400SW	£4.58
Thin cutting wire [per 125g reel]	PROT400CW	£15.40

See also page 1.75 for more polystyrene cutters.

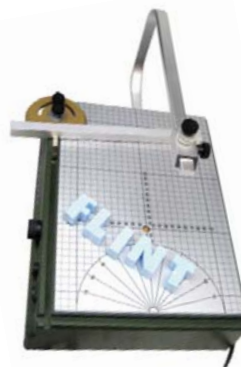
new



Dingeldein Polystyrene Cutter TGS-20 A good value table cutter that can also take accessories. The table size is 450x450mm. Depth of cut on the table is 360mm. 100 Watts for using up a maximum of 1.2mm diameter wire. The TGS-20 Polystyrene Cutter comes complete with a hand sculpting tool. A separate Bow Cutter may be purchased which plugs into the machine. Note: Using wires above 1.2mm diameter could destroy the transformer. 240v.

Dingeldein Polystyrene Cutter	code	price
Dingeldein TGS - 20 Cutter	PROTGS20	£595.00
Bow Cutter [size 1500x600mm deep]	PROTGS20BC	£259.00
Cutting wire 0.5mm x 30m roll	PROTGS20W5	£48.00
Cutting wire 1.2mm x 30m roll	PROTGS20W12	£85.00

new



Proxon Thermocut Polystyrene Cutter Ideal for architectural and theatre model makers. The 390x280mm working surface is of aluminium cobond compound. This eases the pushing of work pieces. A printed grid and protractor are applied to the table. Supplied with a dual function fence with lockable feed bar. 50/60Hz The throat depth is 350mm and the machine will cut material up to 140mm thick.

Cutting wire temperature is variable between 100° and 200°C. Wt approx 3kg. Insulated to class 2 requirements. 240v

Proxon Bench Cutter Thermocut	code	price
Polystyrene Cutter only	PRO27080	£83.75
Spare Wire [30m x 0.2mm]	PRO28080	£6.42

new



Steinel Styrofix Handheld Polystyrene Cutter With the Styrofix, there's now a tool that is easy to use for accurately shaping and cutting rigid foam. The hot cutter is supplied with three blades that are optimised for a variety of different jobs including a hook blade. 240v. Working temperature 200°C. Warm up time 6 minutes. Cutting depth 50mm max.

Steinel Styrofix Handheld Polycutter	code	price
Steinel Stryrofix with three blades	PRO334017	£27.50
Accessory set [the accessory set contains 3 blades, 1 support stand, 1 allen key]	PRO1474700	£6.70

For Black and White Polystyrene Sheets see page 1.60. For Polystyrene Balls see page 1.59.

Visit flints.co.uk to buy online and to download data sheets