

# MOULDMAKING

## EPOXY RESINS BY SP SYSTEMS



### SP 106 Multi-Purpose Epoxy System

This is a simple to use, all-purpose epoxy which can be used for:

- ✓ Gluing ✓ Coating ✓ Laminating ✓ 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. Now also widely used in many other woodworking applications from cabinet making to the manufacture of large wooden moulds. With its Extra Slow Hardener, SP 106 can be used for jobs requiring a long working time or in the "tropical" conditions of high ambient temperatures. In its unmodified form, SP 106 can be used as a clear coating for wood and other substrates, or for laminating lightweight glass fibre fabrics such as those used for reinforcing joints. When used for clear coating, cured SP 106 should be overcoated with a UV-resistant varnish [page 51]. By using Glass Bubbles or Micro Fibres [page 104], an SP 106 resin and hardener mix can be turned into a very effective filling compound or gap filling adhesive. We can supply larger sizes to order. For user instructions visit [flints.co.uk/downloads](http://flints.co.uk/downloads).

SP 106 Multi-Purpose Epoxy	resin/hardener	code	price
1 kg pack + fast hardener	848 g/152 g	ADHF510037	£31.58
1 kg pack + slow hardener	848 g/152 g	ADHF510038	£31.58
3.02 kg pack +	2.56 kg/460 g	ADHF510041	£54.67
10 kg resin only		ADHF510004	£160.75
1.8 kg fast hardener [for 10kg]		ADHF510019*	£46.95
1.8 kg slow hardener [for 10kg]		ADHF510031*	£46.95

\*The 1.8 kg hardeners consists of 2 x 0.9 kg tins.



**SP 106 Handipack** This convenient little pack is perfect for small props and general repairs. It consists of resin, hardener and dispensing pumps which dispense in a special 2:1 mix ratio. Complete with instructions. NB: the SP Multi-Purpose Epoxy System ♣ has a 5:1 mix ratio by volume and the two systems are not compatible.

SP 106 Handipack	resin/hardener	code	price
	250 ml/125 ml	ADHF520012	£34.09



**SP 106 First Aid Kit** Designed for boats, but also useful for general quick repair work and other small tasks like gluing, filling, fairing, coating, filleting

and laminating. Medium to low viscosity. 2:1 mix ratio.

□ Supplied in a tough plastic case with: 250 ml resin, 125 ml hardener, two calibrated pots, filler powders [microballoons, colloidal silica, microfibrils] fibreglass tape, brushes, sticks, and gloves.

First Aid Kit for Boats	resin/hardener	code	price
	250 ml/ 125 ml	ADHA606001	£27.14



### Remeltable PVC Compound

This material is used in similar situations to Silicone Rubber [see below ☞]. It provides a lower cost, but less durable option. Remeltable PVC can be poured over a master to form a flexible mould. Good tensile strength and flexibility will allow castings with deep undercuts to be removed from a one-piece mould, without damage. The material does not require a release agent and when the mould is worn, the product can be remelted [at 130 – 135°C] and used again – a fully recyclable product! We offer the product in two grades, Flexible [Beige] and Semi-Flexible [Blue]. Choose the Semi-Flexible for large moulds and the Flexible for more detail. The melting pot gives a thermostatically controlled temperature range of between 50°C and 200°C and will prevent scorching. Be aware that the product will not reach sufficient heat to melt on a water jacket double boiler. Jesmonite do not recommend using this in conjunction with their products, but instead to use a high grade silicone moulding compound.

Remeltable PVC Compound	code	1 kg	code	Tradeline 25 kg
Flexible [beige]	PRO1011482	£11.30	PRO1011505	£160.45
Semi-Flexible [blue]	PRO1011512	£11.30	PRO1011536	£160.45

  

Melting Pot	volume	code	price
Melting Pot	2.5 L	PRODPS25	£466.25



### 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
Includes curing agent	500 g	PRO1011352	£22.82
Includes curing agent	2 kg	PRO1011369	£73.34

  

Thixotrope	size	code	price
For 500 g silicone rubber	15 g	PRO1011437	£4.46
For 2 kg silicone rubber	60 g	PRO1011444	£8.93

Also see Skinsil Silicone and Alginate [page 83].



### Flints Slush Latex

A popular latex generally used for cast moulding where the latex is poured into a plaster mould. The latex is sensitised to give a speedy build up on the plaster. Thorough drying takes place over 24 hours. The latex should be detached with talc before removing from the mould.

See website [www.flints.co.uk/downloads](http://www.flints.co.uk/downloads) for full data sheets.

Slush Latex	size	code	price	Tradeline
	5 L	PAT848	£66.33	4 x 5 L+ £59.69

NEW



**Flints 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 24 hours before removing using talc to de-tack [page 25]. Our new Flints Latex is just as good as before just cheaper! See also,

Hausmann's HATO® Vit on page page 15.

Dipping Latex	code	100 g	code	5 L	code	20 L
Dipping Latex		FHSDP05	£31.25	FHSDP25		£87.80
Latex thickener	PAT844		£3.35			



**Fine Casting Plaster Plus** 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 ➔. Available in a 2.5 kg tub or a 25 kg sack.

Fine Casting Plaster Plus	code	2.5 kg	code	25 kg
	PRO4622	£8.33	PRO4621	£16.36



**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. Available in a 5 kg tub or a 25 kg sack.

Classic Casting Plaster	code	5 kg	code	25 kg
	PROPCP5	£7.88	PROPCP25	£18.20



**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 150 mm depth. Working time for moulding 10 - 15 minutes. Available in a 4 kg sack.

Plaster of Paris	size	code	price
	4 kg	PROPP4	£8.09



**Mod Roc and Plaster Bandages** 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. Also see Varaform [page 84] and Wonderflex [page 85].

Plaster Bandage	LxW	code	price
4 rolls	3 m x 50 mm	PRO4650	£3.49
2 rolls	3 m x 80 mm	PRO4675	£2.17

Mod Roc	size	code	price
Cut pieces	6.5 kg	PRO460	£30.40
2 rolls	500 g	PROQSQR2	£5.42



**Newclay** An off-white clay reinforced with nylon so it is not brittle. It can be fired in a kiln at

between 1,000 - 1,250°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.

Newclay	size	code	price
Off-white	1 kg	PRO461	£4.13
Off-white	4.5 kg	PRO463	£10.21
Off-white	12.5 kg	PRO464	£19.16
Hardener H1	125 g	PRO461H1	£4.99
Hardener H2	225 g	PRO461HH2	£7.50

NEW



**Prestia SH Alpha Plaster** A high quality hard casting plaster. With significantly less expansion than similar plasters, and a slower setting time, this plaster will set very hard. Popular for use with acrylic resins for casting. 25 kg bag.

SH Alpha Plaster	code	price
	PROSHA25	£20.35

NEW



**Standard Grey Clay** Standard grey clay for modeling, pottery and romance. Fires biscuit 1120° to 1120°C buff. Supplied in 25 kg plastic wrapped blocks.

Grey Clay	code	price	10+
25 kg	PROSGC25	£10.38	£9.35

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. Covers 50 g per m<sup>2</sup>. Dries clear after use.

Soft Wax Mixture Paste	code	price
500 g	JESRW	£14.46



**Brushable Wax - COM300** 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
5 L	PRO434	£39.71



**Silicone Spray Release Agent - Formula 6** Multi-purpose medium duty release agent. Ideal for all thermoplastics and many kinds of rubber. Can be used with Jesmonite.

Formula 6	code	price
400 ml	PROF6	£10.71



**Need a moisture barrier for your mouldmaking? You'll be looking for Bond's G4 Damp Seal. Head over to primers on page 30.**