

FLAME RETARDANTS

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Flints BlazeBlocka®

Our own easy-to-apply flame retardant. It will prevent the spread of flame on a wide variety of materials by forming a heat shield which deflects the heat away from the material. BlazeBlocka® can be used on pretty much any absorbent material - it's colourless, odourless and non-toxic. Use it to treat carpet, hessian, foam rubber, dried flowers, curtains, cotton, canvas, polycotton, polyester and more. Coverage: approx. 10.5 m²/L. Always pre-test a sample before application. Spray the material to be treated on both sides ensuring all the edges are treated, or dip to saturate. Allow to dry. Re-apply if wetted. Tests have shown that on cotton canvas, polyester, and a poly/cotton mix it successfully achieved BS5867: Part 2: 2008 (2015): Type B Curtains, Drapes and Blinds on cotton canvas, polyester and poly/cotton, and BS476: Part 7: Class 2 on Plywood. Certs available on our website. The 1 litre bottle is provided with a trigger spray for easy application.



code	volume	price
FHSBB01	1L	£14.00
FHSBB05	5L	£52.00
FHSBB25	25L	£225.00

Flamebar

Flamebar Solutions are water-based, and have negligible colour. Flamebar is a semi-durable flame retardant treatment for interior use. Flamebar's system is designed with different solutions for different materials, rather than a one solution- fits-all. The solution can be applied by dipping, spraying, padding or brushing, but as a general rule the application should result in a 6-12% increase in dry weight to give adequate flame resistance. Testing should always be carried out. For professional use only. *One litre sizes come in spray applicator bottles.



Flamebar Solution Type and Coverage Chart

Solution	Use/Coverage
PE6	Natural fabrics & materials: cotton, linen, muslin, wool, silk, feathers, leather. Synthetic fabrics: polyester, nylon, acrylics, Dralon, polycotton, silk and artificial silk [rayon] flowers, carpets, floor coverings, wall coverings, curtains, seating, stage curtains, drapes, scenery. Approximate coverage: Heavy or Medium weight fabric: 4 - 6 m ² /L Light weight fabric: 7 - 9 m ² /L
N5	Wood and wood products: softwood, hardwood, plywood, chipboard, hardboard, cork, heavyweight cardboard, stage wood props, sawdust, shavings, wood nuggets, peat, bark, straw. Approximate Coverage: Wood: 4 - 6 m ² /L

code	Type	volume	price
FLA035	PE6	1L	£21.50
FLA015	PE6	5L	£65.98
FLA012	N5	5L	£65.00
FLA052	N5	25L	£260.98

Florimp K Verde

Highly effective, concentrate non-halogen flame retarding solution for cellulose and polyester fibres. Recommended to us by the ROH production department, we have been thoroughly impressed. When testing on cheap artificial flowers from a Walworth Road pound shop [wow, do those things go up in flames or what!?!] this impressive solution completely prevented fire from taking hold. Certified in accordance to DIN 4102 / B1 [Data sheets and test certs available in the 'downloads' section of our website]. We did find that the flowers went a bit stiff after they'd been dipped in the solution. If stiffness isn't an issue and you're working with artificial materials like Polyester, we can highly recommend this.



code	volume	price
FLAFV01	1L	£44.00
FLAFV05	5L	£159.00

Need some advice?

Some materials are easy to flame retard and some are notoriously difficult. Generally, the easy materials are the ones that will absorb the flame retarding solution. Materials such as cotton, cardboard and paper are generally easy to treat whereas non-absorbent materials such as shiny PVC and glossy plastics are very tricky and should really be treated during manufacture. It is not possible for us to supply certification to cover material that you have treated as it will depend on the substrate and method of treatment. The flame retarding solutions we sell are designed to make the materials more difficult to ignite, to slow the spread of flame and prevent smouldering. Any standards given are purely indicative of results achieved by specific tests in the past.

MSL Firecheck®

A simple and effective treatment to combat fire. MSL Firecheck® is colourless and odourless and when dry is practically unnoticeable. It can be used to effectively treat any water absorbent item. MSL Firecheck® is tested to BS 5852 Part 2 [crib 5] when treating natural fibres, mixed fibres [cotton/polyester] and synthetic fabrics such as nylon and polyester. MSL Firecheck® can also be used to treat hessian, foam rubber, untreated wood and other items that can absorb the chemical. Covers approximately 10 - 12 m² per litre. Available in 750 ml trigger spray bottles or in 5 litre and 25 litre containers.



code	volume	price
FLAFC75	750ml	£14.00
FLAFC05	5L	£60.00
FLAFC25	25L	£280.00

Envirograf 3-2-1 Special

A clear odourless flame retarding solution for use on plastic artificial flowers and foliage. Will work on most absorbent plastics, nylon and other synthetics.



code	volume	price
FLA3211	1L	£23.63
FLA3215	5L	£109.65

Bio Retard

A colourless water-based flame retardant designed for use with natural, biobased materials including paper, cardboard, thin plywood, natural fabrics and cellulose fibres. Treated materials meet the requirements of DIN 4102, Class B 1. With the focus on sustainability of recent years, plastics have been replaced with more natural alternatives which can be much more flammable; by treating with Bioretard you can minimise this risk. Application by immersion, brushing or spraying.



code	volume	price
FLABR01	1L	£19.00
FLABR05	5L	£60.00

Flamecheck PLUS

This upgrade from Flamecheck has now been certified to BS5867-2 Type B: 2008 when tested on cotton, polyester, and polycotton [please download certificates from our website "downloads" page]. A colourless, odourless, non-toxic, non-corrosive liquid that can be sprayed onto any type of material which will absorb the chemicals including both natural and mixed fibres. Always test a sample before treatment. Application lasts for the useful life of material treated, though you should re-treat if the material gets wet or is washed.

1 litre covers 320 - 376 square feet [30 - 35 m² per litre].



code	volume	price
FLA075	1L	£15.00
FLA076	5L	£62.50
FLA077	25L	£295.00

Rosco Flame Retarding Solutions

Rosco flame retarding products are designed to be used on scenery rather than costumes or clothing. Do not use with metallic paints. Rosco suggest you allow the first coat to sink in and apply the second coat before the first coat dries. See also Roscoflamex PA in the paint additives section below.



code	Type	volume	price
ROSNF0128	Roscoflamex NF	3.97L	£48.25
ROSSF0128	Roscoflamex SF	3.97L	£77.50
ROSWD0128	Roscoflamex WD	3.97L	£77.50
ROSDF0128	Roscoflamex DF	3.97L	£77.50
ROSPC0128	Roscoflamex PC	3.97L	£77.50

Rosco Solution Type and Coverage Chart

Solution	Use/Coverage	Dilution
NF	Natural fabrics: e.g. cotton	1:2 with water
SF	Synthetic fabrics: e.g. polyester, nylon, rayon, blends	ready to use
WD	Wood products	ready to use
DF	Delicate fabrics: natural or synthetic, maintains soft hand	ready to use
PC	Paper and Cardboard: uncoated only	ready to use

RoscoFlamex PA

Clear liquid additive that can be added to acrylic paints and glazes to make them flame retardant. One 8 oz jar treats 3.79 litres. Do not use with metallic paints.



code	volume	price	12+
ROSPA0128	8oz	£17.75	£15.98

HATO®Safe

This simple non-combustible [EN13501] coating system from Haussmann is great for propmakers on the go who need to reinforce small props. Easy to use, simply add water to the powdery base [37:100], mix thoroughly and apply to the surface - see full listing on page 51 for full details. Normal colour: Off-White, other colours achievable by adding water-based paint. See also Jesmonite [page 130] SPECIFICATION: Ratio Water: HATO®Safe Powder - 37:100. Open time of 60 minutes, Full cure in 24 hours. Apply by brush, or palette knife.



Hard foam coated with HATO®Safe and a layer of Quadriaxial Fabric for reinforcement. Colour can also be added easily using water-based paint.

code	weight	price
PAT1090001	1kg	£23.50
PAT1090005	5kg	£66.85

FLAME RETARDANTS / PAINT BRUSHES

FIRE PROTECTION PAINTS AND VARNISHES

HATO® Protect

Water-based fire prevention coating primer for timber structures. Certified to Euroclass C, DIN EN 13501-1. Designed [and certified] for use on timber alone, we tested on a polystyrene clock with impressive results [see the full listing on page 12 for product details]. Light grey colour that's easy to overcoat. Has maintained certification once overcoated with HATO® Design Paint [see page 21], but we think that any standard theatre paint would suffice. As always, certification is only valid on the actual sample tested and is otherwise a guideline.

SPECIFICATION: Apply by brush, roller or spray gun. Recommend 2 coats. Thin with water: max 3% dilution. Coverage: 225 g/m² per coat.



code	Colour	weight	price
PAT1530125	Light Grey	12.5kg	£257.05

Broflame Ultra Intumescent Emulsion Paint

A water-based non-toxic intumescent emulsion paint which in a fire softens and expands to a thickness of 30 mm. This will insulate the structure from intense heat and control the spread of flame. Needs to be applied according to the application guide but typically apply at least two coats to achieve a final coverage of between 2 and 2.5 m² per litre.

SPECIFICATION: Achieves BS 476 Part 6 Class 0 [Fire Propagation] and BS 476 Part 7 Class 1 [Spread of Flame] on plywood, softwood and MDF etc. Broflame can be overcoated with flame retardant paints to achieve the desired colour [page 19].



code	Colour	volume	price
FLA061	Slightly off-white	5L	£99.98

Bollom Intulac Ultra Intumescent Varnish For Wood

Apply two coats of the clear base coat then overcoat after 8 hours, and before 18 hours, with the hard wearing protective coating which is available in matt or satin.

SPECIFICATION: Coverage: basecoat – a 5 L can will treat 12.5 m² to Class 0, topcoat – a 500 ml can will cover 12.5 m². Basecoat clean up with water. Topcoat clean up with white spirit. Go to flints.co.uk/downloads for copies of the fire certification and data sheets.



code	description	volume	5 L
FLABM675B	Clear basecoat	1L	£217.34
code	description	volume	500 ml
FLABM675M	Protective coat [matt]	500ml	£46.39
FLABM675S	Protective [satin]	500ml	£46.39

And if that doesn't work...

...see Fire Buckets and Extinguishers on page 385. For storage of Flammable products, see our COSHH / flammable Storage Cabinets on page 389.

PAINT BRUSHES

Flints sells a huge variety of specialist paint brushes. We would be happy to provide special quotes for educational departments and large scene shops. It is a false economy to use a poor quality brush for any painting work but look after it! See page 88 for some basic tips on cleaning and caring for paint brushes.

A good brush will hold the correct quantity of paint allowing you to work quickly with less chance of brush or lap marks. Artificial bristles tend to wash out water-based paints more easily. Natural bristle brushes tend to be a little stiffer for manipulating heavy-bodied paints. Use the widest brush you can comfortably handle, it will help maintain the crucial "wet edge". Choose our budget brushes for working with materials that require special thinners such as resins or Hammerite.

ECO BRUSHES

Spirit Renaissance Eco Brush

This new range of Brushes from Pioneer are made with sustainable materials at an affordable price. The handles are made from a bamboo composite, made up of waste bamboo fibre and recycled plastic. All components for the brushes down to the recycled paper packaging are sourced locally to the factory. We introduced these brushes to replace our standard 'mid range' paint brushes as they are frankly higher quality brushes and much cheaper. More sustainable + higher quality + cheaper = wins all round.



code	width	price
PBRDEB1	25mm	£2.05
PBRDEB15	38mm	£2.85
PBRDEB2	50mm	£3.70
PBRDEB3	75mm	£5.35

Lick Brush

Lick Paint Brushes are made with 100% bamboo handles from a sustainably managed forest and the recycled natural bristles are held together with a stainless steel ferrule made up of 60% recycled steel. Lick are also certified climate neutral. It's also a really good paint brush. Picks up lots of paint, has smooth brush strokes and no bristle loss.

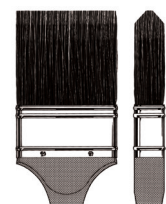


code	width	price
PBR115426	25mm	£6.30
PBR115427	38mm	£7.20
PBR111999	50mm	£9.00
PBR112000	75mm	£10.80

ARTIFICIAL BRISTLE BRUSHES

Omega Orel Acrylic Brush

Soft well-formed artificial "Orel" bristles. They are suitable for all paint types but particularly suited to water-based paints. The fact that they will not leave brush marks make them a perfect varnish brush too. Lacquered wooden handle drilled for storage. Excellent value.



code	width	thickness	price
PBR250	1"	14mm	£7.98
PBR251	1 1/2"	14mm	£9.89
PBR252	2"	15mm	£11.80
PBR2525	2 1/2"	15mm	£14.57
PBR253	3"	15mm	£17.70