

FLAME RETARDANT SOLUTIONS

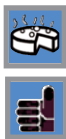
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Need some advice?

Some materials are easy to flameproof and some are notoriously difficult. Generally the easy materials are the ones that will absorb the fireproofing solution such as cotton, cardboard and paper and the difficult ones are non absorbent such as shiny pvc and glossy plastics which should really be treated during manufacture.

If you have got a fireproofing problem why not tap into our thirty years of experience in the industry to guide you to the ideal product.

FLAMEBAR FIREPROOFING SOLUTIONS



Flamebar Flamebar Solutions are water based, harmless to use and have negligible colour. Flamebar is a semi-durable flame retardant treatment for interior use. Since materials are so specific in the way they ignite and burn they require different solutions.

General Application Flamebar flame retardants can be applied by dipping, spraying, padding or brushing. Use the solution as supplied or dilute with water according to data sheet or preferably by test. It is recommended that before treating the bulk, tests on small samples are carried out to establish suitability and level of treatment required. Check appearance and flammability when dry.

- ✓ Complete and even penetration is essential for good results.
- ✓ Reduced flame retardancy will be obtained if penetration is lowered by special finishes such as Scotchguard. As in other instances penetration may be assisted by raising the temperature of the solution [60-80°Cmax].
- ✓ As a general rule a 6 - 12% increase in dry weight of the material is required to give adequate fire resistance.
- ✓ Fast colours are not normally affected.
- ✓ Over-treatment may give rise to some stiffening of the fabric [excess can be removed by dry cleaning] or white marking due to formation of crystals. These can be removed by brushing or vacuuming.
- ✓ Flame retardancy is long lasting but re-apply after washing.
- ✓ In addition to retarding combustion, Flamebar will stop smoldering and afterglow, and will often reduce smoke emission.

Flamebar Solution Type Chart

Please refer to the Flamebar guide below.

Solution	material
PE6	Natural fabrics and materials: cotton, linen, rayon, wool, silk, feathers, leather, animal skins. Synthetic fabrics: polyester, nylon, acrylics, dralon, polycotton, silk and artificial silk [rayon] flowers, carpets, floor covering, wall coverings, curtains, seating, stage curtains, drapes, scenery.
N5	Wood and Wood products: softwood, hardwood, plywood, chipboard, hardboard, cork, heavy weight cardboard, stage wood, props, polyurethane foam, sawdust, shavings, wood nuggets, peat, bark, straw.
S3	Natural materials-economical solution: cotton, hessian, rope, sisal, woven cotton tapes and belts, canvas welding screens, tarpaulins, tent canvas, lighter weight cardboard.
S1WA2	Lightweight natural materials: cotton etc., muslin, paper
ACE6	Polyester artificial flowers: plants and tree foliage

Flamebar Coverage

Depends on absorbency and thickness of the material but approximations are:

Flamebar Coverage	m ² /l
heavy/medium weight fabrics	4-6
light weight fabric	7-9
wood	4-6
wood to class 1	3-4
paper/thin card	10

Please note that non-absorbent materials are rarely successfully treated.

Flamebar	code	1L	5L	25L
SIWA2	FLAOx0	£10.41	£31.65	£123.47
S3	FLAOx1	£10.89	£38.64	£153.22
N5	FLAOx2	£10.89	£38.64	£153.22
PE6	FLAOx5	£11.86	£39.68	£155.45
ACE6	FLAOx6	£16.64	£65.21	£267.87
		[3]	[1]	[5]

One litre sizes come in spray applicator bottles.

FIRE CHECK

new



MSL Fire Check® -the simple and effective treatment to combat fire.

MSL Fire Check is colourless and odourless and when dry is practically unnoticeable. It can be used to effectively treat any water absorbent item. MSL Fire Check has BS5852 part 2 [crib 5] for treating natural fibres, mixed fibres [cotton/polyester] and synthetic

fabrics such as nylon and polyester. MSL Fire Check can also be used to treat hessian, foam rubber, untreated wood and other items that can absorb the chemical.

1 litre covers approximately 10-12 sq metres. Available in 750ml trigger spray bottles or in 5 litre and 25 litre containers.

MSL Fire check	code	750ml	5L	25L
	FLAFCx5	£9.00	£50.00	£212.50
		[7]	[0]	[2]

FLAME CHECK



Flamecheck A colourless, odourless, non-toxic, non-corrosive liquid that can be sprayed onto any type of materials which will absorb the chemicals including both natural and mixed fibres such as cotton/polyester and pure synthetics such as nylon. It will also treat wood and foam rubber.

Extremely effective due to the chemicals forming a carbonised shield in the presence of heat. Always pre-test a sample before treatment.

Application lasts for the useful life of material treated. 1 litre covers 100-120 square feet [9-11 square metres per litre].

Flamecheck	code	1L	5L	25L
	FLA07x	£11.50	£50.00	£233.00
		[0]	[1]	[2]

OTHER FIRE PROOFING SOLUTIONS

Broguard A water based flame retardant solution for natural and man-made fabrics. Treated fabrics will comply to BS5867 and are resistant to fire.

DISCONTINUED

Broguard	code	1L	5L
	FLA02X	£15.60	£41.55
		[1]	[5]

Envirograf 3-2-1 Special A clear odourless fireproofing solution for use on plastic and artificial flowers and foliage.

[not suitable for use with nylon and polypropylene]

Envirograf 3-2-1	code	price
1 Litre	FLA3211	£16.77
5 Litres	FLA3215	£76.76

Bristol Fax is a concentrated fireproofing liquid that is suitable for use on natural fibre fabrics, paper, cardboard, and timber. It is a clear colourless liquid based on inorganic salts that is odourless after application. None of the compounds contained in Fax is listed in the German regulation concerning dangerous working materials. One of the attractive features of Fax is that it is supplied concentrated so it utilises less storage room and is easier to transport. As a rough guide to coverage the maximum amount needed is equivalent to 1/2 the wt of the material to be treated. 1L of Fax weighs just over 1 kg.

Bristol Fax	code	price
1 L [makes 6 litre]	BRIIFAX [£3.26 per litre]	£30.03
5 L [makes 30 litre]	BRI5FAX [£3.10 per litre]	£142.68

Rosco Flameproofing Solutions Rosco fireproofing products are designed to be used on scenery rather than costumes or clothing. Do not use with metallic paints. See also Roscoflamex P50 in the paint additives section below.



Roscoflamex NF (was C26) Add 2-3 parts water to provide an economical flameproofing solution for cotton materials. Yields around 13L of solution. Fantastic value.

Roscoflamex SF (was S33) For treating synthetics, including polyester, nylon, rayon and blends. Ready to use.

Roscoflamex WD (was W40) For wood products. Ready to use.

Roscoflamex	code	3.79L
Roscoflamex NF	ROSNF0128	£46.00
Roscoflamex SF	ROSSF0128	£46.00
Roscoflamex WD	ROSWD0128	£46.00

FIREPROOFING ADDITIVES FOR PAINT



Roscoflamex P50 Clear liquid additive that can be added to acrylic paints and glazes to make them flame retardant. One 12oz [355ml] jar treats 3.79 litres. Do not use with metallic paints

Roscoflamex P50	code	12oz	12x12oz jars
	ROS795012	£8.50	£80.00

See also Mylands Fire Retardant Paints on page 1.11.



Got a large flameproofing project? Why not take a look at our new Back Pak pressurised sprayer on page 1.56.

FIRE PROTECTION PAINTS AND VARNISH

Used on British Airways 747s

Broflame A water based non-toxic intumescent emulsion paint which in a fire softens and expands to a thickness of 30mm. 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 with at least two coats to achieve a final coverage of between 2 and 2.5 sq metres per litre. Achieves Class 1 or Class 0 [BS476 Class 0 Fire Propagation Part 6, Class 1 spread of flame part 7] on plywood, softwood and MDF etc. Broflame can be overcoated with Fire Retardant paints to achieve the desired colour [please see p 1.10]. Broflame is slightly off white.

Broflame	code	5L
	FLA061	£61.46

new



For structural steel



Brosteel Ultra 60 Intumescent Coating (White) A new product providing 30 minutes fire protection in just 1 coat and 60 minutes with 2 coats! Hugely labour saving. Waterborne. BS476:part 20/21:1987 ASFP approved.

Brosteel Ultra 60	code	price
5L	FLA062U60	£93.70
10L	FLA062U6010	£164.26

new

Waterbased Intumescent Varnish for Wood

Apply two coats of clear base coat then overcoat with the hard wearing protective coating which is available in matt - [10-20% reflectance] or satin [30-40% reflectance]. Generally enables MDF, plywood and timber to achieve BS476 Parts 6 and 7 [class 0 and 1].

Intumescent Varnish for wood	code	1L	5L
Clear base coat	FLAHW02EX	£22.03	£109.20
Protective coat [matt]	FLAHW05WBMX	£32.50	£160.21
Protective coat [satin]	FLAHW05WBSX	£32.50	£160.21
		[1]	[5]

FIRE PILLOWS

new

Fire and Smoke Stop Pillows These soft pillows are used to fill voids to prevent the spread of flame. They can be useful when touring to block voids in difficult areas by the iron curtain.

Fire Pillows	code	each
Sausage 300x50x40mm	FLAFPSAS	£3.68
Fire pillow small 300x100x40mm	FLAFPS	£4.43
Fire pillow medium 300x150x40mm	FLAFPM	£5.48
Fire pillow large 300x200x40mm	FLAFPL	£6.30

AND IF THAT LOT DOESN'T WORK....



Fire Bucket A useful prop as well as a fire bucket.

Fire Bucket	code	price
Bucket	SAF327	£25.38
Bracket	SAF328	£4.78
Lid	SAF329	£6.63



Fire Extinguishers These all purpose domestic and semi trade extinguishers will fight most common fires [Classes A,B,C.], which includes wood, paper, cloth, plastic, flammable liquids, gas and electrical fires. Both have a six year warranty and are manufactured to BS EN3:1996 and approved by the Loss Prevention Certification Board.

Fire Extinguisher	code	price
Kidde Multi-purpose Fire rating 5A/34BC	KIDKSP1X	£21.73
Commercial, Fire rating 13A/70BC	KIDKSPD2G	£35.85

For COSHH/flamable storage cabinets see page 3.57.