

BROFLAME

Decorative thin film intumescent coating for solid timber, timber-faced and particle boards to provide Class 1 and Class 0 to BS 476 Parts 6 & 7



The Malta, Maidstone

The Priory Centre, Dartford



One of a comprehensive range of colourful fire protective coatings which enables the designer to maintain the overall decorative theme yet satisfying today's building regulations for fire protection.

Broflame is a white intumescent fire protection system for timber, timber-faced boards and particle boards. Broflame may also be used to upgrade otherwise flammable substrates including previously painted surfaces.

Broflame's thin-film white base coat provides the fire protection required. The system is completed by overcoating with Flameguard Top Seal for Intumescents.



Broflame Applications

- Internal use on new blockboard, hardboard, chipboard, plywood, softwood and MDF for Class 1 and Class 0 fire protection.
- Upgrading existing materials in public buildings, schools, hotels, etc. to provide Class 1 and Class 0 protection in accordance with BS 476 Parts 6 and 7.
- Previously painted surfaces, walls, ceilings, timber linings and particle boards to provide a Class 1 and Class 0 fire protection.

Broflame Protection

In a fire, Broflame softens and expands to form a carbon foam layer which insulates and protects the substrate from the effects of the fire.

Broflame Flameguard Top Seal

The use of Broflame enables the designer to use timber linings in any area of a building for walls, ceilings or partitions. The decorative theme is then maintained by overcoating with Flameguard Top Seal for Intumescents, which is available in an almost unlimited colour range from our inhouse tinting system.

HOW TO APPLY BROFLAME THIN FILM INTUMESCENT PROTECTION

Surface Preparation

New surfaces must be clean and dry. Knot and stop as necessary. Oil or emulsion painted surfaces must be rubbed down to provide a key, ensuring a clean, dry surface. Existing paint films must be adhering firmly - if in any doubt, remove all existing coatings.

Method of Application

Normally applied by brush or airless spray. Broflame must not be thinned. It is imperative that the loadings specified in the appropriate test certificate are observed. The required loadings can be applied in one airless spray coat.

Airless Spray Application

Use a pump such as a Graco Ultra Max 1095 or equivalent. A 30 mesh filter is recommended. Use a tip size of 0.48-0.73mm (0.019-0.029") and tip pressure 243kg/cm³ (3500psi). The internal diameter of the material hose should be 9.5mm (0.375").

For technical advice and spray unit hire/sales contact Bollom Finishing Equipment on (020) 8658 2299.

Brush Application

Apply an even coat taking care to avoid runs or sags using a good quality brush. To achieve the required thickness a minimum of two brush coats will be required with 4-12 hours between coats.

Site Preparation

Throughout the period of application and drying, ambient temperatures should lie between 5-35°C, relative humidity below 75% and the surface temperature between 5-35°C.

HOW TO SPECIFY BROFLAME INTUMESCENT COATING

For Class 1/Class 0 Fire Protection

Ensure that all surfaces are clean and dry. Knot and stop as necessary. Apply Broflame to a total wet loading shown in the Application Data Guide. Overcoat with Bollom Flameguard flame retardant paints - emulsion, gloss or eggshell finishes. One or more coats, 10-12m²/litre, in a colour from the BS4800, RAL 840HR and NCS 1 and 2 range.

For Class 1/Class 0 Fire Protection on Previously Painted Surfaces

Ensure that existing paint films are adhering firmly. If in doubt, remove all existing coatings. Rub down to provide a key and ensure a clean, dry surface. Apply Broflame to a total wet loading of 2m²/litre. Overcoat with Bollom Flameguard flame retardant paints - emulsion, gloss or eggshell finishes. One or more coats, 10-12m²/litre, in a colour from the BS4800, RAL 840HR and NCS 1 and 2 range.

FIRE TEST DATA			TECHNICAL DATA			
Broflame has been extensively tested at Warrington & Yarsley Technical Centre, Redhill, Surrey and the Loss Preventions Council Technical Centre, Borehamwood, Herts, for Class 1 and Class 0 rating to BS 476 Parts 6 and 7.			Broflame		Flameguard	
			Description Thixotropic non-toxic water based intumescent emulsion which in a fire softens and expands to a thickness of 30mm insulating the structure from intense heat and controlling the spread of flame.		Description Emulsion: Flame retardant water based on a chlorine modified P.V.A. incorporating the compound antimony. Gloss/Eggshell: Thermoplastic flame retardant coating in hydrocarbon solvents.	
Material	Classification Class 1	Test Report	Colour:	White	Colour:	BS4800, RAL, NCS 1&2
Chipboard	Spread of Flame	C64752/2	Finish:	Smooth	Finish:	Matt/Satin Emulsion, Gloss & Eggshell
Hardboard	Spread of Flame	C64752/1	Density:	1.25	Density:	1.00
Blockboard	Spread of Flame	C64752/3	Flashpoint:	None	Flashpoint:	Gloss/Eggshell over 32°C
Plywood	Spread of Flame	C64552/1	Containers:	5 and 20 litres	Containers:	5 litres
Softwood	Spread of Flame	TE83477	Shelf life:	12 months	Shelf life:	12 months
M.D.Fibreboard	Spread of Flame	J79088/2	(If stored in unopened containers protected from frost.)		(If stored in unopened containers protected from frost.)	
Anaglypta on plasterboard	Spread of Flame	TE87451	Touch dry:	30 minutes	Touch dry:	Emulsion 1hour Gloss/Eggshell 4 hours
Previously painted surfaces			Overcoat:	Min. Spray 12 hours Min. Brush 4 hours	Overcoat:	Emulsion 4 hours Gloss/Eggshell 15 hours
Plywood	Spread of Flame	TE86083	Interval:	With top coat 24 hours		
Material	Classification Class 0	Test Report	APPLICATION			
Chipboard	Fire Propagation	C65628/4	Broflame	Class 1	Class 0	Overcoating Broflame's thin film base coat provides fire protection to Class 1 or Class 0. The system is completed by overcoating with Bollom Flameguard flame retardant paints. The use of standard decorative paints will down-grade the fire rating achieved with the Broflame system.
Hardboard	Fire Propagation	C65628/2		Spread of Flame	Fire Propagation	
Blockboard	Fire Propagation	C65628/5	Chipboard	2m ² /litre	2m ² /litre	
Plywood	Fire Propagation	C65628/3	Hardboard	2.5m ² /litre	2m ² /litre	
Softwood	Fire Propagation	TE83478	Blockboard	2.5m ² /litre	2m ² /litre	
M.D.Fibreboard	Fire Propagation	J79088/3	Plywood	2.5m ² /litre	2m ² /litre	
Anaglypta on plasterboard	Fire Propagation	TE87452	Softwood	2.5m ² /litre	2.5m ² /litre	
Previously painted surfaces			M.D.Fibreboard	2m ² /litre	2m ² /litre	
Plywood	Fire Propagation	TE86084	Anaglypta on plasterboard	2m ² /litre	2m ² /litre	
			Plywood (Previously Painted)	2m ² /litre	2m ² /litre	



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