SLOWS THE SPREAD OF FLAME
For over 120 years, Johnstone’s has a history for being one of the UK’s foremost professional paint brands. Johnstone’s specialises in meeting the needs of trade decorator’s and specifiers, and is proud to offer a fully comprehensive range of high quality products designed to meet the requirements of any project.

Johnstone’s is at the forefront of technology and innovation, with constant market evaluation and monitoring ensuring that the broad range of products and services available, continues to be the benchmark for the UK paint industry.

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SLOWS THE SPREAD OF FLAME

Approved
Testing in accordance to BS476 Parts 6 & 7

Inhibits flame spread
Innovative technology that improves escape time

Tough & Durable
Outstanding durability that can be scrubbed clean
There have been many well documented cases in recent years, where the presence of multiple paint layers has been proven to accelerate the spread of flame, resulting in the loss of life.

The new Johnstone’s Flame Defence System (FDS) has been specifically formulated to inhibit and slow the surface spread of flame and is designed to meet today’s Building Regulations where a build up of paint layers is likely to occur.

Johnstone’s FDS paints are formulated to comply with legislative expectations detailed within the following two acts.

As part of the Regulatory Reform (Fire Safety) Order 2006 (UK & Wales) & the Fire (Scotland) Act 2006, building designers, managers and owners, housing associations, local authorities and facilities managers all have a legal ‘Duty of Care’ to minimise the risk of fire within their premises and prioritise the safety of its occupants.
The Building Regulations Explained

APPROVED DOCUMENT B STATES THAT,
“TO INHIBIT THE SURFACE SPREAD OF FLAME WITHIN A BUILDING, THE INTERNAL LININGS SHALL AND MUST”:

A Adequately resist the spread of flame over their surfaces, and...

B Have, if ignited, a rate of heat release or a rate of flame growth, which is reasonable in the circumstances.

The level of flame retardance required for commercial and residential buildings as documented in the Building Regulations 2010 is Class 1 or Class 0.

<table>
<thead>
<tr>
<th>RESIDENTIAL</th>
<th>ROOMS UP TO (m²)</th>
<th>CIRCULATION AREAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dwelling House</td>
<td>Class 1</td>
<td>Class 1</td>
</tr>
<tr>
<td>Flat</td>
<td>Class 1</td>
<td>Class 0</td>
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<tr>
<td>Institutional</td>
<td>Class 1</td>
<td>Class 0</td>
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</table>

<table>
<thead>
<tr>
<th>NON-RESIDENTIAL</th>
<th>ROOMS UP TO (m²)</th>
<th>CIRCULATION AREAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assembly</td>
<td>Class 1</td>
<td>Class 0</td>
</tr>
<tr>
<td>Offices</td>
<td>Class 1</td>
<td>Class 0</td>
</tr>
<tr>
<td>Shops</td>
<td>Class 1</td>
<td>Class 0</td>
</tr>
</tbody>
</table>

Circulation Areas - Hallways / Stairwells / Escape routes
BE HOME AND DRY

BEFORE YOU CAN SPECIFY OR RECOMMEND A JOHNSTONE’S FDS PRODUCT, FIRST YOU NEED TO ASCERTAIN THE SURFACE LEVEL OF COMBUSTIBILITY.

**Surface Classifications**

**Class 0** The best case scenario (non-combustible).

**Class 1** Adequate spread of flame.

**Class 2 & 3** Are rarely considered for communal and circulation areas, as Class 1 & Class 0 are the key drivers of legislation for broad wall and internal linings.

**Class 4** The worst case scenario (highly combustible).
The Johnstone’s FDS paints have been independently tested to the most rigorous standards at both industry recognised test houses in the UK: BRE (Building Research Establishment) and Exova Warrington Fire.

Johnstone’s Flame Retardant Paints achieve Class 0 under test by the BRE and Exova Warrington Fire.

BRE is the most recognised independent testing facility for Flame Retardant products, working within the industry for more than 100 years to set the standards necessary to ensure that fire safety products work effectively.

Exova Warrington Fire is the global provider of fire and security testing certification. Exova Warrington Fire supplies the “Blueboard” test substrate used during BS476 Parts 6 & 7 tests.

Blueboard is a Class 4 worst case scenario substrate made up of a cocktail of solvent and water based paint coatings. To achieve Class 0 a Flame Retardant product must be tested over Blueboard.

BS Testing

**JOHNSONE’S FLAME RETARDANT PAINT ACHIEVES CLASS 0 UNDER TEST**

**CLASS 1**

Class 1 is measured by BS476 Part 7, which tests the ability of a paint coating to prevent the surface spread of flame in terms of extent and rate. The classifications range from Class 4–1, Class 1 being the best result.

**CLASS 0**

To upgrade a Class 1 substrate to Class 0, Flame Retardant products must pass BS476 Part 6, which measures heat contribution. Class 0 is generally required for ceiling and wall finishes in public circulation areas and escape routes usually over 4m².

In order to state Class 0 Flame Retardant Paint coating must pass both of these tests.

Johnstone’s FDS Paints have passed both tests.
JOHNSON’S FLAME RETARDANT PAINTS
KEEPS THINGS SIMPLE!

To simplify the specification process and reduce the uncertainty surrounding the specification of paint for redecoration over existing paint coatings, Johnson’s has introduced two new product systems.

1 Flame Retardant Top Coats, Durable Matt and Acrylic Eggshell are to be applied as a minimum of a two coat system and are designed to inhibit the spread of flame. Both products are ideal for application onto new unpainted surfaces but also for painting over sound existing coatings with up to 10x like for like paint layers maintaining the surface at Class 1 or Class 0.

2 The Johnson’s Intumescent Upgrade System is one of only a few complete solutions on the market today, which achieves Class 0 under test and is approved for upgrading a Class 4 surface back to Class 0, and thereby removing the uncertainty associated with the ambiguity in claims relating to Classes 2 and 3.

Johnson’s Flame Retardant Intumescent Upgrade System has been specifically formulated and fully tested in accordance with BS476 Parts 6 & 7. This provides the capability of upgrading the worst case substrate (Class 4) to the highest specification for surface spread of flame and fire propagation (Class 0), providing that the existing substrate is sound for redecoration.

<table>
<thead>
<tr>
<th>Johnstone’s Flame Retardant Intumescent Upgrade System</th>
<th>BS476 Parts 6 &amp; 7</th>
<th>SIZE</th>
<th>COLOUR</th>
<th>NO. OF COATS</th>
<th>RECOAT</th>
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</thead>
<tbody>
<tr>
<td>FLAME RETARDANT TOP COAT - DURABLE MATT</td>
<td></td>
<td>5L</td>
<td>Only</td>
<td>Minimum 2 coats</td>
<td>4-6 Hours</td>
</tr>
<tr>
<td>FLAME RETARDANT TOP COAT - ACYRIC EGGSHELL</td>
<td></td>
<td>5L</td>
<td>Only</td>
<td>Minimum 2 coats</td>
<td>4-6 Hours</td>
</tr>
<tr>
<td>FLAME RETARDANT INTUMESCENT UPGRADE SYSTEM - 2PK PRIMER BASE</td>
<td></td>
<td>10L White only</td>
<td>1 of a 4 coat system</td>
<td>16 Hours</td>
<td></td>
</tr>
<tr>
<td>FLAME RETARDANT INTUMESCENT UPGRADE SYSTEM - ACRYLIC MATT</td>
<td></td>
<td>5L Only</td>
<td>Only 7,000 available (Pastel only)</td>
<td>2 of a 4 coat system</td>
<td>4-6 Hours</td>
</tr>
<tr>
<td>TESTED</td>
<td>BS476 Parts 6 &amp; 7</td>
<td>SIZE</td>
<td>COLOUR</td>
<td>NO. OF COATS</td>
<td>RECOAT</td>
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How to Specify Johnstone’s Flame Retardant Products

SELECTING THE RIGHT OPTION

Establishing if an existing substrate is sound for redecoration can be both complex and potentially time consuming for the person responsible for the ‘Duty of Care’, which is why Johnstone’s, a brand within PPG industries - the global leader in surface coatings, has developed a unique service, PPG Extra, to assist in assessing surface type and condition.

SELECTION OF THE RIGHT OPTION

PPG Extra service

MORE THAN JUST PAINT

PPG Extra is a service designed to offer technical advice and guidance in order to identify the most appropriate products for the project at hand.

PPG Extra is a dedicated group of highly experienced technical staff with extensive construction industry expertise.

The PPG Extra specification services include:

- Full project scope
- On site inspections
- Surface appraisals
- Existing paint layers assessments for condition and adhesion
- Bespoke written project specifications
- Certificates of supply
- Guaranteed quality of service

If you require technical information on any of Johnstone’s Flame Retardant products, simply telephone PPG Extra on 01924 354945.

Multiple paint layers i.e. combinations of solvent & water based coatings

Between 1-10 existing like for like paint layers

Good Adhesion

Strip Wall

Un-Painted Surface

Painted Surface

Bad Adhesion

Intumescent Upgrade System (Minimum 4 Coat System)

Good Adhesion

Flame Retardant Top Coats (Minimum 2 Coat System)

Bad Adhesion

Strip Wall

An on site inspection will comprise a series of assessment based tests. These include the Flake test which is to ascertain the number of layers on a substrate and secondly an Adhesion test which establishes whether existing coatings have good adhesion to the substrate and are therefore suitable for the application of Johnstone’s Flame Retardant paints. In the case of existing coatings being deemed to have poor adhesion they will necessitate stripping back to the original surface.

Johnstone’s Flame Retardant paints must be used in conjunction with a written technical specification from PPG Extra offering a certificate of supply.

If you require technical information on any of Johnstone’s Flame Retardant products, simply telephone PPG Extra on 01924 354945.
BS476
PARTS 6&7
THE RIGHT CHOICE
Approved
Tested in accordance to BS476 Parts 6&7
ANY QUERIES PLEASE CONTACT
PPG EXTRA ON

01924 354945
ppgextra@ppg.com

www.johnstonestrade.com