High performance coatings for specialist applications
Performance Coatings

Johnstone’s Performance Coatings offer a comprehensive range of high performance products and finishes together with associated pre-treatments, providing the solution to all flooring, hygiene and steel and cladding coating requirements.

All Johnstone’s Performance Coatings are available through Johnstone’s Leyland Decorating Centres nationwide and a network of merchant stockists.

SigmaKalon UK Limited is a member of the RIBA CPD Providers Network.

National Building Specification. The recognised format used by Architects and Specifiers in the UK for specifying products.
Performance Coatings

1. **Floor**
   Johnstone's Floor Coatings offer a comprehensive range of high performance floor paints suitable for use in domestic and industrial applications. All products offered in the range give excellent performance, coverage and longevity, from back to ‘business as usual’ within a day, to chemical resistance. Johnstone's Floor Coatings provide a performance solution.

2. **Steel and Cladding**
   Johnstone's recognize that maintenance prolongs the life of buildings, machines and other installations. This range of high performance coatings offers a simple, cost-effective system for the maintenance of steel and cladding substrates.

3. **Hygiene**
   Johnstone’s Hygiene Coatings bring you top quality coatings for all applications where hygiene is an issue.

4. **Specialist**
   Johnstone’s Specialist Coatings offers you a range of products providing solutions to a wide variety of specialist application needs. High performance, top quality products ensure the correct level of protection and finish is achieved.

5. **Primers**
   Johnstone’s Specialist Primers offer a comprehensive range of specialist application primers providing solutions to a variety of priming needs.

6. **Flame Retardants**
   Johnstone’s Flame Retardant Coatings bring a comprehensive range of fully tested coatings meeting today’s building regulation standards.
Case Study

Customer: British Airports Authority
Location: Heathrow Rail Terminal
Contractor: Cousins Ltd
Task: Painting escape staircases, handrails and floors in the vent building, where huge fans circulate air into underground areas.

- The express rail terminal will handle millions of passengers every year, providing a vital link with London’s Paddington Station.
- Johnstone’s Performance Coatings Acid Etch Solution provided an excellent key for the 2 Pack Epoxy Water Based Floor Paint.
- The Class ‘O’ fire rating was essential for application underground.
- Stairs and handrails were picked out in a specially manufactured yellow to enhance their visibility.

“We chose Johnstone’s Floor Coatings based on our previous experience with the services offered and the product. We know we will get the best with Johnstone’s and that’s the reason we push for it.”
Floor Coatings

Product Selector

<table>
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<th>Light Traffic</th>
<th>Medium Traffic</th>
<th>Heavy Traffic</th>
<th>Chemical Resistance</th>
<th>Durability</th>
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2 Pack Epoxy Water Based Floor Paint

Size: 5 Litre (4 Litre Base + 1 Litre Activator = 5 Litre)

A two pack, water thinned finish for use on floors, structural steel, machinery and wall tiles. Suitable for use in heavy traffic areas.

- Tough, abrasion resistant
- Resistant to moderate chemicals and most solvents
- Low odour and taint free
- Full chemical cure in 7 days
- High performance semi gloss finish

Colours: Dark Green, Princess Grey, Dark Grey, Morning Mist, Tile Red

Ideal Usage: Floors and primed steelwork where high durability is required.

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<tr>
<th>Light Traffic</th>
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<th>Chemical Resistance</th>
<th>Durability</th>
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2 Pack Epoxy Solvent Based Floor Paint

Size: 4 Litre (3 Litre Base + 1 Litre Activator = 5 Litre)

A two pack semi gloss finish for concrete, steel, non-ferrous metals and asbestos cement. Suitable where a more heavy duty and chemical resistant finish is required.

- Excellent water resistance
- Resistant to chemicals and solvents
- Excellent abrasion and impact resistance
- Superb adhesion to concrete

Colours: Dark Green, Princess Grey, Dark Grey, Morning Mist, Tile Red

Ideal Usage: Heavy industrial, factories and warehouses.

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<thead>
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<th>Light Traffic</th>
<th>Medium Traffic</th>
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<th>Chemical Resistance</th>
<th>Durability</th>
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Quick Dry Floor Paint

Size: 5 Litre

A rapid drying, water-based floor paint based on a tough acrylic resin providing a low odour finish suitable for use in light traffic areas.

Excellent on timber floors as well as concrete. Not suitable for garage floors.

- Quick drying
- Low odour
- Water-based

Colours: Dark Grey, Morning Mist, Tile Red

Ideal Usage: Schools, nurseries, timber walkways and floors.
Floor Coatings

Low Slip Concrete Floor Paint
Size: 5 Litre
A single pack finish for concrete, steel and wooden floors which contains a light aggregate to provide a slip resistant, semi-gloss finish.
- Resistant to mild chemicals
- Low slip formulation
- Suitable for light to medium traffic areas
Colours: Tile Red, Dark Grey, Dark Green

Flortred
5 Litre and 2.5 Litre (Not all colours are available in 2.5 Litre)
A solvent-based, semi-gloss coating for concrete, steel and wooden floors which dries to a smooth finish. Suitable for light to medium traffic areas.
- Resistant to mild chemical spillage
- Hardwearing finish
- Prevents dust formation
Colours: Black, Clear, Dark Green, Dark Grey, Morning Mist, Princess Grey, Sherwood Green, Safety Yellow, Safety Red, Safety Blue, Tile Red, White

Road Marking Paint
Size: 5 Litre
A universal road marking paint suitable for application to asphalt, concrete and brick on roads, runways, car parks and sports facilities.
- Quick drying
- Resistant to water, oil and brine
- Good fade resistant properties
Colours: Yellow, White

Hard Court Paint
Size: 10 Litre
A high quality, water-based, acrylic resin based coating formulated for interior and exterior use. Suitable for use on all weather hard courts and sporting areas.
- Slip resistant
- Water-based
- Durable
Colours: Red, Green

Ideal Usage:
- Low Slip Concrete Floor Paint: Walkways and garages where slip resistance is required.
- Flortred: Walkways, light industrial factories and warehouses.
- Road Marking Paint: Car parks, warehouses and roads.
- Hard Court Paint: Concrete or tarmac tennis courts and school playgrounds.
Floor Coatings

**Anti-Slip Additive**
**Size:** 1.5kg

A silica quartz based additive powder to give smooth floor paints a tough and durable anti-slip performance.

- Improves slip resistance of floor paints
- Compatible with all Johnstone’s Floor Coatings
- Can be added directly to the paint or sprinkled on the wet paint film

**Ideal Usage:** Any area where slip resistance is required.

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**Acid Etch Solution**
**Size:** 5 Litre

A surface pre-treatment prior to painting for power floated and smooth concrete floors.

- Etches surfaces for improved adhesion
- Removes excess lime
- Not suitable for use on case hardened concrete

**Ideal Usage:** Preparing power floated concrete.

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**Essentials required by Johnstone’s Floor Coatings**

- **TC1 Thinner & Cleaner**
  - Road Marking Paint

- **TC2 Thinner & Cleaner**
  - Low Slip Concrete Floor Paint
  - Flortred

- **TC3 Thinner & Cleaner**
  - 2 Pack Epoxy Solvent Based Floor Paint
Steel & Cladding Coatings
Case Study

Customer: Blackburn & Darwen Council
Contractor: Connor Decorators & TI Protective Coatings
Task: Refurbishment of a 100 year old structure spanning the river Darwen in Blackburn, constructed from mild steel but suffering from minor corrosion.

- The project was completed in less than 16 weeks, in spite of the scale of the task.
- Removal of surface rust prior to spot priming was carried out then two coats of Semi-Gloss Topcoat and one coat of Gloss Topcoat were applied.
- Once the main section of the bridge had been completed, TI Protective Coatings moved in to carry out work on the soffit, the final section of the bridge. Great care was taken to adhere to the specification which advised that Johnstone’s Performance Coatings would provide full protection in all weather.
- The recommended products were applied to the structural steelwork on the underside of the bridge, taking just three weeks to complete.
Steel & Cladding Coatings

Product Selector

<table>
<thead>
<tr>
<th>Usage</th>
<th>2 Pack Primer</th>
<th>Single Pack Primer</th>
<th>Semi-Gloss Topcoat</th>
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<tr>
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<td>Cladding and suitably prepared steelwork</td>
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<td>TC4</td>
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</table>

2 Pack Primer

Size: 2 Litre (1.5 Litre Base + 500ml Activator)

A two pack epoxy, solvent-based, surface tolerant primer for application to a variety of metallic substrates, providing a high performance corrosion inhibiting coating.

- Excellent water barrier properties
- Suitable for spot priming of aluminium and galvanised steel
- Tolerates damp surfaces during application
- Pot life 8 hours

Colours: Brown

Ideal Usage:
- Spot priming of damaged cladding. Priming of poorly prepared steel.

Single Pack Primer

Size: 5 Litre

A fast drying, single pack, anti-corrosive primer for use under a variety of finishes.

- Excellent anti-corrosive properties
- Good adhesion to pre-treated steel and aluminium
- Suitable as a holding primer
- Sprayable if thinned appropriately

Colours: Light Grey

Ideal Usage:
- Priming of pre-treated aluminium and properly prepared steel.

Semi-Gloss Topcoat

Size: 5 Litre

A silicone alloyed based, semi-gloss finish that is specially formulated to endure the rigour of exterior exposure.

- Excellent durability and UV resistance
- Good anti-corrosive properties
- Easy application and good adhesion

Colours: Available in a range of colours via our Tinting System.

Ideal Usage:
- Suitably prepared steel, plastisol cladding and other metallic surfaces.
Steel & Cladding Coatings

Gloss Topcoat
Size: 5 Litre

A silicone alkyd based, gloss finish coat formulated to provide long lasting protection against corrosion on metal substrates. For use where excellent durability is required or as the finishing coat of a protective paint system.

- Excellent durability and UV resistance
- Good anti-corrosive properties
- Dry heat resistant (125°C pale colours, 175°C dark colours)

Colours: Available in a range of colours via our Tinting System.

Ideal Usage:
Suitably prepared steel, plastisol cladding and other metallic surfaces.

Essentials required by Johnstone’s Steel & Cladding Coatings

<table>
<thead>
<tr>
<th>TC1 Thinner &amp; Cleaner</th>
<th>TC2 Thinner &amp; Cleaner</th>
<th>TC3 Thinner &amp; Cleaner</th>
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<td>• Single Pack Primer</td>
<td>• Semi Gloss Topcoat</td>
<td>• 2 Pack Primer</td>
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<td>• Gloss Topcoat</td>
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</table>
Good hygiene is crucial to reduce the risk of infection. Johnstone's Hygiene Coatings assists specifiers in their overall strategy to combat bacteria by offering long term protection against the growth of mould, bacteria and other harmful micro-organisms.

**Product Selector**

<table>
<thead>
<tr>
<th>Location</th>
<th>Anti-Mould Acrylic</th>
<th>Stopmould</th>
<th>2 Pack Water-Based Wall Coating</th>
<th>Sterilization Wash</th>
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<td>Special Features</td>
<td>Matt Finish</td>
<td>Matt Finish</td>
<td>2 Pack Performance</td>
<td>Good Dilutability</td>
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</table>
**Anti-Mould Acrylic**  
Size: 2.5 & 5 Litre

A premium quality, acrylic resin based, mould inhibiting coating formulated for use on walls and ceilings where protection against algal and fungal growth is required.

- Safe in food preparation areas
- Low odour and quick drying
- Inhibits mould and algal growth

Colours: White, Magnolia

Ideal Usage: In areas where algal and fungal growth are a problem both interior and exterior.

**Stopmould**  
Size: 2.5 & 5 Litre

A water-based, matt emulsion formulated for areas subject to conditions which are conducive to mould growth.

- Suitable for use on new and aged plaster
- Inhibits mould growth
- Interior use in intermittently damp areas

Colours: White, Magnolia

Ideal Usage: Interior areas of high humidity where mould growth is a problem.

**2 Pack Epoxy Water Based Wall Coating**  
Size: 2.5 Litre (2 Litre Base & 500ml Activator)

A two pack, durable semi gloss finish for use on walls, offering a tough, abrasion resistant film.

- Odourless and taint free
- Excellent washability for areas of high contamination
- Resistant to mild chemicals and solvents

Colour: White

Ideal Usage: Where a high resistance to washing down is required. Excellent on blockwork.

**Sterilisation Wash**  
Size: 2.5 Litre

A water-based solution formulated for the control and treatment of mould, fungal and algal growth prior to painting.

- Ideal for use on walls, ceilings and masonry
- Ready to use formulation
- Suitable for both interior and exterior use

Colours: Clear

Ideal Usage: As a pre-treatment for decorative coatings both interior and exterior.
Specialist Coatings
Case Study

Customer: MP Agricultural
Contractor: Metcalfe Contractors
Task: Refurbishment of interior steelwork in large grain storage shed.

- This grain storage shed handles thousands of tonnes of grain in various guises throughout the year.
- All steelwork was manually prepared and spot primed prior to the application of Johnstone’s Specialist Coatings Aluminium Paint.
- This product was chosen due to its excellent protective metallic finish which is essential in this high usage area.
- The fluctuation of heat inside the structure made Johnstone’s Specialist Coatings Aluminium Paint an excellent choice due to its heat resisting properties, withstanding heat up to 150°C.
Black Bitumen
Size: 2.5 Litre and 5 Litre

A corrosion resistant, waterproofing paint formulated for interior and exterior use on metal and concrete surfaces.

- Resistant to dilute acids and alkalis
- Anti-corrosive properties

Colour: Black

Ideal Usage:
Metal and concrete surfaces where water resistance is required.

Matt Blackboard Paint
Size: 1 Litre and 2.5 Litre

An attractive smooth, non-reflective black finish formulated for interior use where a durable ‘dead matt’ finish is required.

- Non-reflective finish
- Dead matt
- Suitable for a variety of applications

Colour: Black

Ideal Usage:
Beams, paneling, doors, decorative ironwork, stage scenery and blackboards.
**Specialist Coatings**

**Flat Oil Paint**

**Size:** 2.5 Litre and 5 Litre

A solvent-borne, traditional matt finish formulated for interior use on wood and metal surfaces. Based on an alkyd resin it provides excellent obliteration and flow characteristics and produces a smooth, even finish with excellent durability.

- Suitable for use on small interior areas
- Excellent durability
- Traditional matt finish
- Not suitable for large broad wall areas

**Ideal Usage:** Suitable for use on wood and metal surfaces.

**Colour:** Brilliant White

**Red Oxide Paint**

**Size:** 2.5 Litre and 5 Litre

A solvent-borne, protective finish formulated for interior and exterior use on most metal and wood surfaces. Based on an alkyd resin, containing red oxide pigments, it provides long term protection and helps prevent rust.

- Excellent covering power
- Anti-corrosive properties
- For interior and exterior use

**Ideal Usage:** Suitable for use on wood and metal surfaces.

**Colour:** Red Oxide

**Aluminium Paint**

**Size:** 2.5 Litre and 5 Litre

A solvent-borne, protective metallic finish based on an oil varnish medium and aluminium flake, it will withstand high temperatures.

- Withstands temperatures up to 150°C
- Solar reflective properties
- Protective metallic finish

**Ideal Usage:** Suitable for use on metal and metal surfaces such as storage tanks, ducting and pipework.

**Colour:** Silver

**Agricultural Oxide**

**Size:** 5 Litre

A solvent-borne protective finish formulated for interior and exterior use. Provides a semi-gloss finish, combining excellent opacity and good weather resistance.

- Excellent covering power
- Good weather resistance
- Long term protection of metal

**Ideal Usage:** Suitable for use on metal agricultural buildings and structural steel.

**Colours:** Red, Grey, Green

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**Ideal Usage**

**Spec:** Suitable for use on wood and metal surfaces.

**Spec:** Suitable for use on metal and metal surfaces such as storage tanks, ducting and pipework.

**Spec:** Suitable for use on metal agricultural buildings and structural steel.

**Spec:** Suitable for use on metal agricultural buildings and structural steel.
Specialist Coatings

**Micaceous Iron Oxide**  
Size: 5 Litre  
Ideal Usage: Structural steel.

A high build, urethane modified alkyd pigmented with micaceous iron oxide to protect structural steel. Can be used as a build coat in a system or as a finish in its own right.  
- Superb moisture barrier  
- Supreme weatherability and UV resistance  
- Anti-corrosive properties  
Colours: Silver, Natural

**Quick Dry Machinery Enamel**  
Size: 5 Litre  
Ideal Usage: Direct to steel, plant and machinery.

A tough, high gloss alkyd finish which provides a fast drying, durable coating which will resist mechanical damage.  
- Tough, durable finish  
- Fast drying  
- Resistant to mechanical damage  
Colours: Saxe Blue, Fiesta Red, Granite, Dark Green, Saffron Yellow, Silver, Black, White

**Anti-Condensation Paint**  
Size: 5 Litre  
Ideal Usage: Internal areas where condensation is a problem.

A water based emulsion paint which provides a thick, matt coating for use on interior surfaces.  
- Significantly reduces condensation  
- Absorbs moisture and releases it slowly back into the air  
- Interior use only  
Colour: Brilliant White

**Damp Proof Paint**  
Size: 5 Litre  
Ideal Usage: Over damp interior walls where water ingress is a problem.

A Pliolite® resin based, matt finish, solvent-based paint which incorporates a water reactive agent which acts as a barrier to moisture ingress.  
- Incorporates a water-reactive agent  
- Blocks moisture ingress  
- Provides powerful anti-mould performance  
Colour: White
Specialist Coatings

Heavy Duty Glaze
Size: 5 Litre

A tough, durable coating for added protection in high traffic, broad wall areas.
- Tough durable coating
- Protective finish for broad wall areas
- Suitable for high traffic areas
Colour: Silver

Ideal Usage:
For application over most interior decorative coatings where a protective finish is required.

Solar Reflective Paint
Size: 5 Litre

A full-bodied, bituminous aluminium coating suitable for the protection of properly prepared steel, asphalt and bituminous substrates.
- Solar reflective, reduces heat build up
- One coat application
- Added protection to a variety of substrates
Colour: Silver

Ideal Usage:
Roofs exposed to direct sunlight

Essentials required by Johnstone’s Specialist Coatings

TC1 Thinner & Cleaner
- Quick Dry Machinery Enamel

TC2 Thinner & Cleaner
- Red Oxide Paint
- Flat Oil Paint
- Black Bitumen
- Micaceous Iron Oxide

- Agricultural Oxide
- Matt Blackboard Paint
- Damp Proof Paint
- Aluminium Paint
- Solar Reflective Paint
Various products from the Johnstone’s range of products were used on this contract with Quick Dry High Build Zinc Phosphate Primer being chosen for the galvanised surfaces.

Up to 30 operatives were involved, with as many as 20 men working at the site at any one time, doing 24 hour shifts.

The “Trim & Final” area is the part of the factory where the finishing touches are added to Jaguar’s latest model - the “X-Type”.

The work area, approximately 100,000 sq metres in size, had to be cocooned so that machinery and stock would not be contaminated with overspray.

Customer: Jaguar Factory, Halewood
Contractor: E O’Neill
Task: Refurbishment of the “Trim & Final” area of the plant.
Specialist Primers

Product Selector

<table>
<thead>
<tr>
<th>Product Selector</th>
<th>Quick Dry Primer Sealer</th>
<th>Aluminium Wood Primer</th>
<th>Acrylic Wall Primer Sealer</th>
<th>Water Based Metal Primer</th>
<th>MDF Primer</th>
<th>Q.D. Zinc Phosphate Primer</th>
<th>High Build Zinc Rich Primer</th>
<th>Multi-Surface Primer</th>
<th>2 Pack Adhesion Promoting Primer</th>
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</tr>
<tr>
<td>Thinner/Cleaner</td>
<td>•</td>
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</tr>
<tr>
<td>Ideal Usage:</td>
<td>Timber, wood composites, plaster, cement, brickwork. Also seals tar, bitumen and creosoted areas.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Ideal Usage:</td>
<td>Timber, resinous timber, scorched timber and smoke damaged timber. Product is self-knotting.</td>
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</tr>
</tbody>
</table>

Quick Dry Primer Sealer

Size: 2.5 Litre

A white primer and sealer for use on tar, bitumen and creosoted surfaces preventing bleed through.
- Seals most problematic surfaces
- Prevents bleeding or staining
- Touch dry in 10 minutes

Colour: Brilliant White

Aluminium Wood Primer

Size: 1 Litre, 2.5 Litre and 5 Litre

A solvent-borne blend of fine grade aluminium and high quality resin. Provides a barrier against the oily exudations of naturally resinous and scorched timber.
- Can be used as a sealer on smoke damaged surfaces
- Suitable for use on resinous timber
- Easily overcoated

Colour: Grey
## Specialist Primers

### Acrylic Wall Primer Sealer

**Size:** 5 Litre

A high-quality, quick-drying, alkali-resisting primer sealer manufactured from high-quality pigments and tough acrylic resin.

- Excellent sealing properties
- Low odour
- Excellent alkali resistance

**Colour:** Brilliant White

**Ideal Usage:**
- Plaster, plasterboard, cement render, timber, bare masonry, interior stone, fibre cement boards.

### Water Based Metal Primer

**Size:** 2.5 Litre

A top quality, water-borne metal primer manufactured from high-quality pigments and a special acrylic resin.

- Excellent anti-corrosive properties
- Excellent adhesion to ferrous metal
- Low odour and quick drying

**Colour:** Grey

**Ideal Usage:**
- Ferrous and non-ferrous metals such as aluminium, steel, iron and galvanised steel.

### MDF Primer

**Size:** 1 Litre, 2.5 Litre and 5 Litre

A water-based primer and undercoat formulated for use on medium-density fibreboards, and other wood composites.

- Low odour and quick drying
- Excellent adhesion
- Seals routed MDF effectively

**Colour:** Brilliant White

**Ideal Usage:**
- MDF, chipboard, blockboard, smooth planed timber and other wood composites.

### Quick Dry Zinc Phosphate Primer

**Red Oxide & Grey:** 2.5 and 5 Litre, **White:** 5 Litre

A single-pack primer for use under a wide variety of conventional finishes. Excellent adhesion to suitably prepared steel and aluminium.

- Excellent anti-corrosive properties
- Good adhesion to pre-treated steel and aluminium
- Suitable for pre-treated galvanised steel

**Colours:** Red Oxide, Grey, White

**Ideal Usage:**
- Ferrous metal and suitably prepared non-ferrous substrates.
Specialist Primers

High Build Zinc Rich Primer
Size: 1 Litre, 2.5 Litre and 5 Litre

A single pack, rust inhibiting primer for iron and steel also suitable as a finish coat in its own right.
- Prevents spread of corrosion beneath paint film
- Rust inhibiting primer
- Suitable as a primer and a finish coat in its own right

Colour: Grey

Ideal Usage:
Iron, steel, galvanised steel and non-ferrous metal.

Multi-Surface Primer
Size: 1 Litre and 2.5 Litre

A quick drying primer with excellent adhesion properties, making it ideal for use on non-porous surfaces.
- Excellent adhesion to non-porous surfaces such as glazed tiles
- Low odour and quick drying
- Excellent durability

Colour: Brilliant White

Ideal Usage:
Melamine, powder coat, glazed tiles, matt tiles, quarry tiles, glass, suitably prepared ferrous and non-ferrous metals.

2 Pack Adhesion Promoting Primer
Size: 2.5 Litre (2 Litre Base + 500ml Activator)

A two pack, water based curing system which promotes adhesion on difficult substrates.
- Superior adhesion and 'bleed' resistance
- Two pack water-based curing system
- Suitable for use as a barrier coat

Colour: White

Essentials required by Johnstone's Specialist Primers

TC2 Thinner & Cleaner
- Aluminium Wood Primer
- Quick Drying Zinc Phosphate Primer

TC4 Thinner & Cleaner
- High Build Zinc Rich Primer
Flame Retardants

The Benefits of Johnstone’s Flame Retardant Coatings

- Wide, fully tested colour range offered
- Minimal number of products offered, designed to give maximum efficiency
- Conventional application methods
- Tested on a wide range of substrates
- Protection – limits the spread and growth of a fire offering extended escape times
Flame Retardants

Why use Flame Retardant Coatings?

Building owners and also those responsible for the maintenance of buildings have a duty of care to all those who occupy or use the building, in particular to the means of escape such as stairways and corridors.

When the building was new these areas would have met the requirements of the Building Regulations and would have been designated Class ‘O’.

However, following years of re-decoration work in these communal areas and escape routes, the build up of paint layers may considerably reduce this classification and should a fire occur it is possible that the paint coatings would allow rapid spread of flames across their surface, drastically reducing escape times.

Should a fire occur Flame Retardant Coatings would act to delay the spread of flame thus providing extra vital time in the early stages when the fire can be extinguished or escape made.

When used in combination with smoke detectors and fire alarms a range of independently tested decorative coatings and Intumescents can restrict flame spread providing that all important additional time for evacuation of the buildings prior to the arrival of the fire services.

How the Products Work

Normal paint allows heat to pass through its surface directly into the substrate beneath. The substrate will heat up very quickly and a fire generally follows soon after.

Flame Retardant Coatings will maintain the fire rating of the substrate to which they are applied. These work by releasing a non-combustible gas which serves to dilute the oxygen supply to the fire, thereby reducing its growth providing that vital extra time for evacuation.

Intumescent coatings, when subjected to heat, swell to create an insulating barrier between the substrate and the heat source, thereby reducing the heat rise in the substrate beneath.
Flame Retardants

Intumescent Basecoat
Size: 5 Litre

- Water Based Intumescent Emulsion virtually no odour
- Fully tested to BS 476 parts 6 and 7
  Part 6 – Fire propagation
  Part 7 – Surface spread of flame
- Achieves Class 1 and 0 as defined by the Building Regulations, Approved Document B on Plywood and Softwood when used as part of a system.
- Colour: White

Flame Retardant Undercoat
Size: 2.5 Litre

- Fully Tested to BS 476 parts 6 and 7
  Part 6 – Fire propagation
  Part 7 – Surface spread of flame
- Achieves Class 1 and 0 as defined by the Building Regulations, Approved Document B over softwood.
- Easy to apply formulation
- Colour: White

Flame Retardant Acrylic Eggshell
Size: 5 Litre

- Fully Tested to BS 476 parts 6 and 7
  Part 6 – Fire propagation
  Part 7 – Surface spread of flame
- Achieves Class 1 and 0 as defined by the Building Regulations, Approved Document B for non-combustible substrates such as plasterboard, cementitious board, plaster work and areas coated in Intumescent Basecoat.
- Excellent opacity, covering power and washability
- Colours: Available in an extensive range of colours, matched on our in-house tinting system

Flame Retardant Vinyl Matt
Size: 5 Litre

- Fully Tested to BS 476 parts 6 and 7
  Part 6 – Fire propagation
  Part 7 – Surface spread of flame
- Achieves Class 1 and 0 as defined by the Building Regulations, Approved Document B for non-combustible substrates such as plasterboard, cementitious board and plaster work.
- Excellent opacity, coverage and colour retention
- Colours: Available in an extensive range of colours, matched on our in-house tinting system
Flame Retardant Gloss
Size: 2.5 Litre

- Fully Tested to BS 476 parts 6 and 7
  - Part 6 – Fire propagation
  - Part 7 – Surface spread of flame
- Achieves Class 1 and 0 as defined by the Building Regulations, Approved Document B over softwood.
- Easy to apply gloss finish
Colour: White

Intumescent Acrylic Sealant
Size: 310ml cartridge

- Tested to and achieved BS476 Part 20 with a 4 hour fire rating
- Halogen free, polymer emulsion based sealant that swells when subjected to temperatures in excess of 125°C to form a char coat that restricts the passage of smoke and fire.
- Dries to a flexible, smooth, overpaintable surface.
Coverage: One tube of Intumescent Acrylic Sealant is sufficient to produce approx. 1 metre using a 20mm x 5mm bead.
Colour: White
### Flame Retardants

<table>
<thead>
<tr>
<th>BS 476 part 7</th>
<th>BS 476 part 6</th>
<th>Substrate</th>
<th>System</th>
<th>Finish</th>
<th>Class 'O'</th>
</tr>
</thead>
<tbody>
<tr>
<td>215463</td>
<td>215464</td>
<td>Non-combustible Substrate (Supalux)</td>
<td>1 mist coat Johnstone’s Flame Retardant Vinyl Matt, White/Pastel Base + 2 coats Johnstone’s Flame Retardant Vinyl Matt, White/Pastel Base</td>
<td>Vinyl Matt</td>
<td>0</td>
</tr>
<tr>
<td>215465</td>
<td>215466</td>
<td>Non-combustible Substrate (Supalux)</td>
<td>1 mist coat Johnstone’s Flame Retardant Vinyl Matt, Ultra Deep Base + 10% colorant by volume + 2 coats Johnstone’s Flame Retardant Vinyl Matt, Ultra Deep Base + 10% colorant by volume</td>
<td>Vinyl Matt</td>
<td>0</td>
</tr>
<tr>
<td>215467</td>
<td>215468</td>
<td>Non-combustible Substrate (Supalux)</td>
<td>1 mist coat Johnstone’s Flame Retardant Acrylic Eggshell, White/Pastel Base + 10% colorant by volume + 2 coats Johnstone’s Flame Retardant Acrylic Eggshell, White/Pastel Base</td>
<td>Acrylic Eggshell</td>
<td>0</td>
</tr>
<tr>
<td>215469</td>
<td>215470</td>
<td>Non-combustible Substrate (Supalux)</td>
<td>1 mist coat Johnstone’s Flame Retardant Acrylic Eggshell, Ultra Deep Base + 10% colorant by volume + 2 coats Johnstone’s Flame Retardant Acrylic Eggshell, Ultra Deep Base + 10% colorant by volume</td>
<td>Acrylic Eggshell</td>
<td>0</td>
</tr>
<tr>
<td>215471</td>
<td>215472</td>
<td>Plywood</td>
<td>2 coats Johnstone’s Flame Retardant Intumescent Basecoat + 2 coats Johnstone’s Flame Retardant Vinyl Matt, White/Pastel Base</td>
<td>Vinyl Matt</td>
<td>0</td>
</tr>
<tr>
<td>215473</td>
<td>215474</td>
<td>Plywood</td>
<td>2 coats Johnstone’s Flame Retardant Intumescent Basecoat + 2 coats Johnstone’s Flame Retardant Vinyl Matt, Ultra Deep Base + 10% colorant by volume</td>
<td>Vinyl Matt</td>
<td>0</td>
</tr>
<tr>
<td>215475</td>
<td>216013</td>
<td>Softwood</td>
<td>2 coats Johnstone’s Flame Retardant Intumescent Basecoat + 1 coat Johnstone’s Flame Retardant Undercoat, White + 1 coat Johnstone’s Flame Retardant Gloss, White</td>
<td>Gloss</td>
<td>0</td>
</tr>
<tr>
<td>215481</td>
<td>215482</td>
<td>Non-combustible Substrate (Supalux) coated with 1 mist coat and 10 neat coats of conventional emulsion</td>
<td>2 coats Johnstone’s Flame Retardant Vinyl Matt, White/Pastel Base</td>
<td>Vinyl Matt</td>
<td>0</td>
</tr>
<tr>
<td>215483</td>
<td>215484</td>
<td>Non-combustible Substrate (Supalux) coated with 1 mist coat and 10 neat coats of conventional emulsion</td>
<td>2 coats Johnstone’s Flame Retardant Vinyl Matt, Ultra Deep Base + 10% colorant by volume</td>
<td>Vinyl Matt</td>
<td>0</td>
</tr>
<tr>
<td>216014</td>
<td>215486</td>
<td>Non-combustible Substrate (Supalux) coated with 1 coat of Alkali Resistant Primer and 10 coats of conventional eggshell</td>
<td>2 coats Johnstone’s Flame Retardant Acrylic Eggshell, White/Pastel Base</td>
<td>Acrylic Eggshell</td>
<td>0</td>
</tr>
<tr>
<td>216015</td>
<td>215488</td>
<td>Non-combustible Substrate (Supalux) coated with 1 coat of Alkali Resistant Primer and 10 coats of conventional eggshell</td>
<td>2 coats Johnstone’s Flame Retardant Acrylic Eggshell, Ultra Deep Base + 10% colorant by volume</td>
<td>Acrylic Eggshell</td>
<td>0</td>
</tr>
</tbody>
</table>
Flame Retardants

Support services
At Johnstone’s we recognise the requirements of our customers in such a demanding market. To this end we offer a comprehensive technical support service covering:

- Product information
- Advice on surface preparation
- Specification
- Colour advisory service. Our colour consultants are experts in the selection and recommendation of the use of colour, in any environment. Listening to customers’ needs, they can produce a detailed colour scheme reflecting the desired effect.
- Colour matching service. We offer a unique colour matching service to all our customers. The service is fast, accurate and free of charge. Our technologists will ensure you get a perfect match to samples of paint, fabric, wallpaper and even tiles. Telephone 01924 354321.
## Building Regulations: Surface Classification Requirements

### Residential Rooms Larger than 4m² Circulation Area

<table>
<thead>
<tr>
<th>Classification</th>
<th>Rooms Larger than 4m²</th>
<th>Circulation Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dwelling House (1 or 2 storey)</td>
<td>Class 1</td>
<td>Class 1</td>
</tr>
<tr>
<td>Flats</td>
<td>Class 1</td>
<td>Class 0</td>
</tr>
<tr>
<td>Institutional</td>
<td>Class 1</td>
<td>Class 0</td>
</tr>
<tr>
<td>Other Residential</td>
<td>Class 1</td>
<td>Class 0</td>
</tr>
</tbody>
</table>

### Non-Residential Rooms Larger than 30m² Circulation Area

<table>
<thead>
<tr>
<th>Classification</th>
<th>Rooms Larger than 30m²</th>
<th>Circulation Area</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>
<tr>
<td>Other Non-Residential</td>
<td>Class 1</td>
<td>Class 0</td>
</tr>
</tbody>
</table>

### Legislation

The Building Regulations apply to almost all of the building work carried out in the UK and are made principally to ensure the health and safety of people in and around buildings.

Approved Document B of the Building Regulations concentrates on the fire safety aspects of the completed building.

In simple terms approved Document B lays down the criteria for the various fire resistant elements of construction and also the Approved test methods which satisfy the various provisions.

There is nothing set down in requirements of the Approved Document B which relates directly to paint. However, they do relate to areas which are usually treated with decorative materials, the internal linings (ceilings and walls). Here the requirements of the Regulations are specific about internal fire spread on linings, they state:

To inhibit the spread of fire within the building the internal linings shall:

(a) Adequately resist the spread of flame over their surfaces, and
(b) Have, if ignited, a rate of release which is reasonable in the circumstances.

The main classifications used for testing the compliance of materials with the requirements of the Regulations are BS 476, parts 6 and 7.

**BS 476 part 6** is a method of test for fire propagation of products. The test produces results which provide a fire propagation index which, in turn gives a measure of the contribution to the growth of a fire made by the material being tested.

**BS 476 part 7** is a method of test to determine the classification of the surface spread of flame of products. There are four classifications of the spread of flame. Class 1, this is the lowest and best, Class 2, 3 and 4.

Under test conditions samples are exposed to immense heat and a naked flame is introduced for a period of 90 seconds. The spread of flame is measured and classified in accordance with a set table of measurement.

### Class ‘O’ defined

There is no specific reference to Class ‘O’ in any British Standard or test criteria.

Class ‘O’ is referred to in the Building Regulations Approved Document B and defined as follows.

The highest national product performance classification for lining materials is Class ‘O’. This is achieved if a material or the surface of a composite product is either:

(a) Composed throughout of materials of limited combustibility, or
(b) A Class 1 material which has a fire propagation index of not more than 12 and a sub index of not more than 6.

If, when tested, materials achieve the above, they are designated Class ‘O’.

Each Johnstone’s Performance Coatings Flame Retardant product has been tested over various substrates, (see table) and fully met the requirements of BS 476 parts 6 and 7 and are therefore designated Class O.