

## Flowshield LXP



### Standard Colour Chart



Anthracite Grey



Tile Red



Mid Grey



Forest Green



Beige



Yellow

### Description

Flowshield LXP is a modified, multi-functional polyurethane flooring system providing exceptional impact and abrasion resistance whilst maintaining good chemical and physical performance for demanding industrial applications. A two pack, solvent free, flexible polyurethane topping applied at 1 mm.

### Uses

- Food and pharmaceutical industries.
- Showroom and workshops.
- Freezer rooms.
- Cold rooms.
- Meat processing factories.
- Breweries.
- Multi functional arenas.

### Benefits

- Excellent impact resistance.
- Excellent abrasion resistance.
- Good chemical and physical properties.
- 30 % Elongation providing crack bridging properties.
- Odourless when applied.
- Smooth self-levelling finish.
- Exceptional adhesion, including steel.
- Seamless and hygienic finish, no crevices where dirt and bacteria dwell.
- Easy to clean and sterilize, low maintenance requirement.
- Flexible. Can be used over asphalt, wood and steel.
- Solvent free, low odour.

Product: Flowshield LXP

Thickness: 1-2 mm

Colour: Various

Preparatory work and application in accordance with supplier's instructions.

### Substrate Requirements

Concrete or screed substrate should be a minimum of 25N/mm<sup>2</sup>, free from laitance, dust and other contamination. The substrate should be dry to 75% RH as per BS8204 and free from rising damp and ground water pressure. If no damp proof membrane is present Flowcem DPM can be incorporated directly beneath the Flowcoat system.

### Application

Ensure the concrete or substrate mechanically prepared and free of dust and contamination. Steel substrates should be blasted to SA 2½. Ensure concrete moisture is below 4% as polyurethane systems are sensitive to moisture. Depending on substrate type and quality a primer should be used to seal substrate. Please refer to Flowcretes Technical department for more information. Apply first coat of Flowshield LXP as a scratch coat at 4m<sup>2</sup>/ℓ. Allow to cure for 12 hours and fill blow holes if necessary. Apply second coat at 0.81m<sup>2</sup> using notched trowel and spiked roller.

### Environmental considerations

The finished system is assessed as non-hazardous to health and the environment. The long service life and seamless surface reduce the need for repairs, maintenance and cleaning. Environmental and health considerations are controlled during manufacture and application of the products by Flowcrete staff and fully trained and experienced contractors.

### Focus on the Floor-zone

Flowcrete Group plc are world leaders in specialist industrial and commercial flooring. Systems available include: underfloor heating systems, floor screeds, surface damp proof membranes, decorative floor finishes, seamless terrazzo, car park deck waterproofing, tank lining systems... to name just a few. Our objective is to satisfy your Floorzone needs.

### Important Note

Flowcrete's products are guaranteed against defective materials and the finished product.

### Further Information

To ensure you are specifying a fit for purpose flooring for your project please consult our Technical Advisors on the number below or visit our website to register your interest in specifying one of the most durable floors on the market.

### Technical Information

The figures that follow are typical properties achieved in laboratory tests at 20 °C and at 50% Relative Humidity.

Fire Resistance:	BS 476: Part 7: Surface spread of flame- class 2
Slip Resistance: (SRV)	TRRL Pendulum Slip Test Dry 74 Wet 23 (Slip values are given as a guide only. Final slip value achieved will depend on the application method and specification.)
Thermal Resistance:	Tolerant up to 60°C
Surface Hardness:	65 (Shore D)
Water Permeability:	Nil – Karsten Test (impermeable)
Abrasion Resistance:	BS 8204-2 Class AR2- Medium duty industrial and commercial.
Flexural Strength:	> 15 N/mm <sup>2</sup> (BS 6319)
Tensile Strength:	> 10 N/mm <sup>2</sup> (BS 6319)
Bond Strength:	Greater than cohesive strength of 25 N/mm <sup>2</sup> concrete > 1.5MPa
Elongation at break:	60% (BS 6319)
Tear Strength:	11mPa (BS 6319)
Chemical Resistance:	Go to <a href="http://www.flowcrete.com">www.flowcrete.com</a>

### Speed of Cure

	10°C	20°C	30°C
Light traffic	36 hrs	24 hrs	12 hrs
Full traffic	72 hrs	48 hrs	24 hrs
Full chemical cure	12 days	7 days	7 days

### Aftercare - Cleaning and Maintenance

Clean regularly using a single or double headed rotary scrubber drier in conjunction with a mildly alkaline detergent.

### Life Expectancy

5-10Years: subject to correct maintenance regime. Flowshield LXP is not colour fast and may change colour over time (exhibits a yellowing effect). Colour change depends on the UV light and heat levels present and hence the rate of change cannot be predicted. This is more noticeable in light colours and blues but does not compromise the products flexibility or chemical resistance characteristics. We have endeavoured to adopt colours within our standard range which minimise this change.

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