

## Flowshield LXP

### Application instructions

#### Preparation/Substrate

Surfaces to be coated should be sound and provide adequate strength for the proposed end use (minimum 25 N/mm<sup>2</sup> compressive strength).

The surface profile and levels should be appropriate for the system to be applied. Substrate humidity must not exceed 75% RH, in which case use Hydraseal DPM.

Blasting, scouring or diamond grinding removes laitance. Irregularities, damage and cracks are filled with epoxy filler. All residues must be removed to provide a dry, dust free open textured surface.

Contact us for advice if there are impurities, such as oils etc., in the concrete. Check the relative humidity of floors at ground level. Follow our instructions for connections to grid drains, cesspools, pipes and pipe inlets.

#### Primer

##### Concrete

Prime using **Flowshield LXP clear primer**.

Pour Hardener B into the packaging holding Base A and completely pour out the resultant mixture. Mix using a low-speed drill and stirrer until a homogenous mixture is obtained. Do not mix in too much air.

Allow the primer to harden until the surface can be walked on, approx. 15 hours at 20°C. At lower temperatures the hardening time is longer. It is important there are no dry patches. In instances where the substrate is highly absorbent, two coats of primer may be required in order to avoid dry patches.

Apply immediately after mixing using a double-lipped rubber squeegee and/or roller. Ensure that the primer permeates any surface irregularities.

Consumption, Flowshield LXP clear primer : approx. 4m<sup>2</sup> / ℓ.

Hydraseal DPM is to be used as the primer in instances where the substrate exceeds 75% RH; refer to a separate application instruction for more information.

##### Metal

Prime using **Ivory 366**

Stir Hardener B before adding Base A. Make sure that the container holding Base A is completely emptied. Mix using a low-speed drill and stirrer until a homogenous mixture is obtained.

Apply immediately after mixing using a double-lipped rubber squeegee and/or roller. Ensure that the primer permeates any surface irregularities.

Consumption, Ivory 366 : approx. 8m<sup>2</sup> / ℓ

##### Asphalt

**Flowshield LXP** Prime using LXP Primer.



**Note that:**

Uneven floors may require the use of Flowshield LXP as a scratch-coat. Use 0.1 - 0.3mm dried natural sand in a 2:1 ratio (flowshield LXP : sand) before applying the Flowshield LXP system.

**Mixing**

**Flowshield LXP** is supplied in complete batches, A+B. The coloured Base A must be stirred well. Transfer Hardener B to Base A. Mix thoroughly using a low-speed drill for 1-2 minutes. Thoroughly stir. Pour the material into another mixing vessel and mix for a further minute. Remember, never split up a batch. Incorrect mixing ratios or poor mixing can result in irregular hardening or variations in colour, etc.

**Application**

The material can be applied with a roller or rubber squeegee/roller. Total consumption for one coat is 1.0 kg, providing 0.7 mm/m<sup>2</sup>.

If anti-slip protection is required, the first coat must be sprinkled with sand. The following day, any excess sand is to be collected, after which the surface must be vacuumed. The second coat of Flowshield LXP is then applied using a rubber squeegee and roller. Consumption in the second coat will vary depending on the size of the sand used.

The second coat must be applied 16-24 hours after the first (to achieve a flat, smooth finish). There is no need to be quite as precise in respect of the timing of the second coat as the anti-slip protection surface affords mechanical adhesion to the sand.

During prolonged interruptions in the work the seam is placed where it is least visible, e.g. along drains or door openings etc. Use masking tape. Apply the compound up on the tape. During the continuation of the work, mask with new tape on the finished coat.

**Important Information :**

There may be colour differences between different batches. Make sure that the material comes from the same batch.

In instances where the colour is to be the same across multiple orders, Flowcrete should be notified so that production can take this into account.

Flowshield LXP is not colour fast and may change colour over time. This does not compromise the product's flexibility or chemical resistance characteristics.

**Note that:**

Flowcrete products are often multiple-component systems. Poor mixing, or incorrect mixing procedures, can result in irregular and incomplete hardening, which in turn can result in an inferior final result.

The coloured Base A is stirred first before the B component is added.

The temperature should be over 15°C to achieve the best results during application. The temperature of the substrate should be at least 10°C, although a temperature of 15-25°C is recommended.

The temperature of the substrate should exceed the "dew point" by more than 3°C during application and hardening.

The product should be stored in such a way that the temperature is the same as the room temperature where the product is to be applied, i.e. between 15-25°C. This improves the mixing, flow, penetration and hardening of the product.



The surface can normally be walked on after approx. 16 hours at 20°C. Complete hardening takes 5-7 days.

There are often several types of products at a workplace. Sort the products separately to avoid mistakes.

### Consumption of Materials / Ratio of Components

	Consumption of Materials	Ratio of Components (A:B)	
		Weight	Volume
<b>Flowshield LXP primer</b>	approx. 4m <sup>2</sup>	2.6 : 1	-
<b>Ivory 366</b>	approx. 8/m <sup>2</sup>	1:5	1:4
<b>Flowshield LXP</b>	approx 1.0 kg/m <sup>2</sup> with two coats (0.7 mm/m <sup>2</sup> )	4.9:1	3.9:1

### Cleaning of Tools

Cleaned immediately after use in solvent, e.g. Flowsolve Cleaner or Acetone.

Any recommendation or suggestion relating to the use of the products made by Flowcrete SA., whether in its technical literature, or in response to a specific enquiry, or otherwise, is based upon data believed to be reliable, however the products and information are intended for use by Customers having requisite skill and know-how in the industry and therefore it is for the Customer to satisfy itself of the suitability of the products for its own particular use and it shall be deemed that the Customer has done so at its sole discretion and risk.