

## Flowshield HD SL

### Product sheet

#### Product description

An easy to apply, epoxy resin self smoothing flooring system, applied in coats of 4 - 6 mm.

#### Uses

Flowshield HD SL is used to protect concrete where requirements have been set for improved durability to withstand both mechanical and chemical stress. The finished surface is smooth, impermeable, and easy to clean. Typical areas for use are dry process manufacturing, packaging and warehousing subjected to intensive wheeled & fork lift traffic. Suitable for AGV, Hovair and other robotic equipment trafficking.

#### Environment & Health

Flowshield HD SL is a solvent and Nonyl Phenol free product, and practically odourless during application. Follow the appropriate Occupational Health and Safety guidelines applicable to the location where the application is undertaken.

For more information, please refer to the safety datasheets for the individual components.

#### Ratio of components

3.3 parts of component A are mixed with 1 part of component B, and 7.7 parts of component C by weight.

Add all of Hardener B to Base A and mix before adding Filler C. Ensure that all Filler C is mixed in from the sides of the container and fully dispersed throughout the mix. Mix with a slow speed drill and helical spinner, taking care not to entrain air.

Immediately after spreading, Flowshield HD SL should be rolled with a spiked roller to release any entrapped air. It should be lightly rolled again 25 - 45 minutes later (the time depending on the temperature).

Abrasion resistant dressings can be applied approximately 1 hour after Flowshield HD SL application (subject to ambient conditions). Grain size to suit clients needs. Most common dressings are 70s mesh Alox (white) or silicon carbide (black), at 0.1 - 0.25 kg/m<sup>2</sup>.

#### Application temperature and Humidity

The recommended substrate temperature is 15-25°C, but no less than 10°C.

The temperature of the substrate should exceed the "dew point" by 3°C during application and hardening. Temperatures should not fall below 5°C in the 24 hrs after application.

#### Application Time/Pot Life

Ready-mixed product should be used within 30 minutes at a temperature of 18°C.

At higher temperatures the application time is shorter.

### Curing time (18°C)

Can be walked on after 24 hours.

The product is fully hardened after 5-7 days.

High humidity in the early stages of cure can result in white, matt surfaces (blooming).

Do not cover or wash within the first 24 hours of curing.

### Colours

See the System data sheet, Flowshield SL.

### Solids content

Approx. 100 %

### Finish

Gloss

### Density

Component A approx. 1.46 kg/l.

Component B approx. 1.05 kg/l.

Component C approx. 2.65 kg/l.

A+B approx. 1.33 kg/l.

A+B+C approx. 1.9 kg/l.

### Storage

12 months in unopened pack at a temperature of 5-40°C.

Protect from weather and moisture / contaminant ingress.

### Packaging

The product is delivered A+B+C in the following packs:-

Unit	Flowshield SL Base A	Flowshield SL Hardener B	Flowshield HD SL Filler C
32.3 kg (17 litres)	8.9 kg	2.7 kg	20.7 kg

### Physical Properties

Compressive strength	> 90 N/mm <sup>2</sup>	Bond strength	> cohesive strength of concrete
Flexural Strength	> 33 N/mm <sup>2</sup>	Abrasion resistance	< 0.05 mm (C&CA Abrasion, as BS8204)
Tensile strength	> 15 N/mm <sup>2</sup>	Impact resistance	< 0.05 mm (BRE screed tester)

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