

# STRONGCOAT FHB

## Flexible epoxy protective coating



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### PRODUCT FEATURES

**Strongcoat FHB** is a two-pack, solvent free, high build epoxy coating formulated for easy application by brush or roller to concrete.

Strongcoat FHB is resistant to weathering providing a tough, waterproof membrane with crack bridging properties.

Strongcoat FHB produces an aesthetically attractive finish and is supplied in a variety of colours (consult our Sales Department for further details). Typical areas of use include car parks, walkways, sewage treatment works, tank bund walls, etc.

Strongcoat FHB has excellent resistance towards many of the chemicals commonly used in an industrial environment (consult our Technical Department for further details).

Slip resistant finishes can be produced for very demanding situations.

### KIT FORM

5kg

### SPECIFIED COATING THICKNESS

Approximately 250-300 microns/coat

### COVERAGE

Approximately 2m<sup>2</sup>/ kg / coat at the specified coating thickness.

Important: This coverage figure is based on application to a smooth dense surface. Coverage figures will vary according to the texture, porosity and evenness of the surface on which the Strongcoat FHB is being applied.

### STORAGE

Store at temperatures between 5°C and 30°C.

### SHELF LIFE

Approximately 24 months if stored in unopened containers and under good conditions.

### TECHNICAL INFORMATION

EN 1504-2	5 (PR)
Wear resistance (EN 13892-4)	≤ 50 µm
Thermal compatibility (EN 13687-3)	≥ 2.0 N/mm <sup>2</sup>
Crack bridging ability (EN 1062-7; Static)	≥ 1250 µm
Impact resistance (EN ISO 6272-1)	≥ 10 N/m
Adhesion by pull off (EN 1542)	≥ 2.0 N/mm <sup>2</sup>
Slip/skid resistance	≥ 40 units dry

### SURFACE PREPARATION

The surface must be clean, dry (less than 75%RH measured by Hygrometer) and free from dust, laitance, oils, paints or other forms of contamination. Grit blasting can be used to remove laitance and surface contamination. Grit blasting should also be undertaken to remove all rust and scale from steel surfaces prior to using Strongcoat FHB (see the **DCP Guide to Surface Preparation** for further details).

For treatment of surfaces containing expansion joints please consult our Technical Department.

### PRIMING

Strongcoat FHB has excellent adhesion to concrete and priming is not normally necessary. If the substrate is particularly porous a priming coat of **Strongcoat Primer** is recommended.

If the substrate has humidity reading greater than 75%, it is recommended that **Strongcoat DPM** be used prior to coating with Strongcoat Primer.

(Please consult the appropriate data sheets for further details).



## MIXING

Strongcoat FHB comprises two components, a Resin and Hardener which are supplied pre-weighed in the correct proportions. Under no circumstances should part mixing be carried out.

Taking care to ensure that the bottom and sides are thoroughly scraped, transfer the entire contents of the Hardener container into the Resin container. Using a power whisk attached to a slow speed electric drill, mix for approximately 2 minutes until a uniform consistency is obtained.

Important: Never mix Strongcoat FHB by hand as this could lead to areas of uncured material.

## APPLICATION

Once mixing is complete, transfer the contents of the Strongcoat FHB to a roller tray and using a brush or medium-pile simulated sheepskin roller, apply it evenly over the surface to give a smooth continuous film.

## WORKING TIME

Strongcoat FHB has a working time of approximately 20 minutes at 20°C.

Important: Never leave the mixed Strongcoat FHB kit to stand for any length of time prior to application, as this will considerably shorten its working time.

## CLEANING

Once mixing and application are complete, tools can be cleaned with a suitable solvent. Cured material can only be removed mechanically.

## CURING TIME

At 20°C, Strongcoat FHB should be allowed to cure for 24 hours prior to opening it to pedestrian traffic. At the same temperature, Strongcoat FHB should be allowed to cure for approximately seven days prior to opening it to vehicular traffic or exposing it to chemical contamination (consult our Technical Department for details of curing times at other temperatures).

## OVERCOATING

The second coat of Strongcoat FHB must be applied no later than 24 hours at 20°C after the first coat has cured.

Additionally, the first coat of Strongcoat FHB must not be contaminated prior to applying the second coat.

## SLIP RESISTANT FINISHES

Apply a coat of Strongcoat FHB to the surface and, whilst this is still wet, completely blind it with an appropriate grade of Aggregate (consult our Technical Department for details of Aggregate grades). Allow the coat of Strongcoat FHB to cure for the specified time (see Curing Time) then vacuum off the excess Aggregate. The bound Aggregate is then sealed with a further coat of Strongcoat FHB (consult our Technical Department for details of coverage rates).

Important: The coverage rate of Strongcoat FHB will be considerably reduced when using it to seal Aggregates.

## WORKING CONDITIONS

Strongcoat FHB should not be applied at temperatures below 10°C.

## HEALTH AND SAFETY

Please consult the appropriate Material Safety Data Sheet prior to using Strongcoat FHB.

## GENERAL GUIDANCE

This data sheet is for general guidance purposes only and may contain information that is inappropriate for certain conditions of use. Accordingly, all recommendations and suggestions are made without guarantee. Further information is available from our Technical Department.

Please consult our Sales Department to confirm that this Data Sheet is the current data sheet.

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**Note:**

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.

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