

Strongcoat HB

High-build epoxy floor coating



DESCRIPTION

Strongcoat HB is a high build, hard wearing, solvent free epoxy resin coating, designed to provide a hard, gloss coating to concrete floors. It is supplied as two pack material in preweighted quantities ready for on site mixing and use.

Strongcoat HB permits the application of floor coatings in excess of 200 microns per coat and can be coloured to suit site requirements. Slip resistant finishes can be produced for very demanding situations.

APPLICATIONS

Strongcoat HB is used as protective, decorative, high chemical resistance and hard wearing floor coating system for a wide range of applications including:

- » Aircraft hangars.
- » Car parks.
- » Soft drink and beverage production areas.
- » Dairies production areas.
- » Show rooms.
- » Production, maintenance and assembly areas.
- » Warehouses.
- » General food processing and manufacturing plants.

ADVANTAGES

- » Produces a seamless, glossy, glass-like surface that is both easy to clean and does not induce bacterial and fungal growth.
- » High chemical and mechanical resistance.
- » Available in a wide range of attractive colours.
- » Cost effective.
- » Easy application.
- » High build.
- » Hydrocarbon resistant.

STANDARDS

Strongcoat HB complies with EN 13813, Class SR-AR0,5-B2,0-IR4.

METHOD OF USE

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 (see DCP Guide to Surface Preparation for further details). For treatment of surfaces containing expansion joints consult DCP Technical Department.

TECHNICAL PROPERTIES:

Wear resistance: EN 13892-4	≤ 50 µm
Bond strength: EN 13892-8	≥ 2 MPa
Impact resistance: EN ISO 6272-1	≥ 4 Nm

PRIMING

Strongcoat HB 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 HB.

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

MIXING

Taking care to ensure that the bottom and sides are thoroughly scraped, transfer the entire contents of the Strongcoat HB Hardener and Strongcoat HB Resin container into a mixing bucket and, using a jiffy-type mixer attached to a slow-running electric drill, mix for approximately two minutes.

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

APPLICATION

Once mixing is complete, transfer the Strongcoat HB to a roller tray and, using a medium-pile simulated sheepskin roller, apply it evenly over the surface.

WORKING TIME

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

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

WORKING CONDITIONS

Strongcoat HB should not be applied at temperatures less than 10°C.

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Strongcoat HB

CURING TIME

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

SLIP RESISTANT FINISHES

Apply a coat of Strongcoat Primer to the surface and allow it to cure for the specified time (see the Strongcoat Primer Data Sheet for further details).

Apply a coat of Strongcoat HB to the primed surface and, whilst this is still wet, completely blind it with an appropriate grade of Aggregate (consult DCP Technical Department for details of Aggregate grades).

Allow the coat of Strongcoat HB to cure for the specified time (see Curing Time) then vacuum off the excess Aggregate. Seal the bound Aggregate with a further coat of Strongcoat HB (consult DCP Technical Department for further details of coverage rates).

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

OVERCOATING

The second coat of Strongcoat HB must be applied no later than 24 hours at 20°C after the first coat has cured. Additionally, the first coat of Strongcoat HB must not be contaminated prior to applying the second coat.

REMARKS

In lighter colour shades, the product may experience accelerated yellowing over time, even indoors, particularly when exposed to heat from strong lighting (e.g., industrial discharge lamps, fluorescent lamps, metal halide or mercury vapour lamps).

CLEANING

Once mixing and application are complete, tools can be cleaned with a suitable solvent.

PACKAGING

Strongcoat HB is available in 6 kg and 18 kg packs.

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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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SPECIFIED TOPPING THICKNESS RANGE

Approximately 200 microns per coat.

COVERAGE

Approximately 4 m² per kg at the specified coating thickness. 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 HB is being applied.

STORAGE

Strongcoat HB has a shelf life of 24 months from date of manufacture if stored under good conditions at temperatures between 5°C and 30°C in unopened containers.

If these conditions are exceeded, contact DCP Technical Department for advice.

CAUTIONS

HEALTH AND SAFETY

Strongcoat HB, Strongcoat Primer and DCP Solvent should not come in contact with skin and eyes. In case of accidental splashes to the eyes, rinse thoroughly with clean water and seek medical advice. Suitable protective gloves and goggles should be worn.

For further information, refer to the Material Safety Data Sheet.

FIRE

Strongcoat HB is nonflammable.

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- » Concrete admixtures.
- » Surface treatments
- » Grouts and anchors.
- » Concrete repair.
- » Flooring systems.
- » Protective coatings.
- » Sealants.
- » Waterproofing.
- » Adhesives.
- » Tile adhesives and grouts.
- » Building products.
- » Structural strengthening.