

Strongcoat HB Vertical

Epoxy resin protective coating for vertical and horizontal applications



DESCRIPTION

Strongcoat HB Vertical is a two-component epoxy resin coating with improved chemical resistance, designed to provide a hard, gloss coating to concrete floors and walls.

APPLICATIONS

Strongcoat HB Vertical is used as protective, decorative and hard-wearing coating for floors or walls in many applications including:

- » Protective coating for concrete and steel.
- » Soft drink and beverage production areas.
- » General food processing and manufacturing plants.
- » Hospitals and pharmaceutical factory walls.
- » Fish and meat processing plant walls.
- » Industrial and commercial kitchen walls.

ADVANTAGES

- » High chemical resistance.
- » Available in a range of colours.
- » Produces a seamless semi-gloss surface that is both easy to clean and does not induce bacterial and fungal growth.

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).

PRIMING

Strongcoat HB Vertical 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 Vertical.

MIXING

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

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

TECHNICAL PROPERTIES:

Colour:	Available in different colours
Mixed density:	1.45 ± 0.10 g/cm ³
Pot life:	30 - 40 min @ 20°C
Minimum time between coats:	12 hr @ 20°C
Maximum time between coats:	24 hr @ 20°C
Full curing time:	7 days @ 20°C 5 days @ 35°C
Bond strength:	> 2.0 N/mm ²
Taber abrasion resistance: ASTM D4060 (1000g , 1000 cycle) weight loss, CS17 wheel	90 milligrams

APPLICATION

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

CURING TIME

At 20°C Strongcoat HB Vertical should be allowed to cure for 24 hours prior to opening it to pedestrian traffic. At the same temperature, Strongcoat HB Vertical 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 HB Vertical must be applied no later than 24 hours at 20°C after the first coat has cured. Additionally, the first coat of Strongcoat HB Vertical must not be contaminated prior to applying the second coat.

WORKING CONDITIONS

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

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CLEANING

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

PACKAGING

Strongcoat HB Vertical is available in 10 kg and 20 kg packs.

SPECIFIED TOPPING THICKNESS RANGE

Approximately 200 microns per coat.

COVERAGE

Approximately 3 - 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 Vertical 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.

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

CAUTIONS

HEALTH AND SAFETY

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

OCCASSIONAL SPILLAGE

Chemical Resistance (Spot - test @ 1 hr)

Oleic Acid	RS
Citric Acid 25%	R
Vinegar 10%	R
Sodium Hydroxide 50%	R
Ammonia 10%	R
Xylene	R
White spirit	R
Phosphoric Acid 20%	R
Sulphuric Acid 25%	R
Hydrochloric Acid 15%	R
Nitric Acid 25%	R

Chemical Resistance (Immersion @ 7 days)

Nitric Acid 10%	RS
Phosphoric Acid 20%	R
Vinegar 10%	R
Sulphuric Acid 25%	R
Hydrochloric Acid 10%	R

R: Resistant

RS: Resistant with slight discolouration

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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.

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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.