

# Gripdeck® Flexcoat SL

Self-smoothing, hard wearing, flexible floor coating



## DESCRIPTION

Gripdeck Flexcoat SL is a two-component, solvent-free, polyurethane based flexible floor topping that provides floor surfaces with a seamless, hygienic, semi-gloss finish. It can be supplied in a variety of colours (consult our Sales Department for details).

Gripdeck Flexcoat SL is specially designed to be applied between 2 and 4 mm. The flexible nature of the system allows it to be installed on new or existing concrete, some asphalt, wood and steel surfaces.

Fast installation of Gripdeck Flexcoat SL leads to minimized downtime, with high performance product that cures to provide a durable and hard-wearing surface with good chemical resistance.

## APPLICATIONS

Gripdeck Flexcoat SL is used to provide a hygienic, and hard-wearing surface for concrete floors for a wide range of applications such as:

- » Car park decks.
- » Exhibition areas.
- » Factories and industrial areas.
- » Mezzanine floors.
- » Workshops.
- » Warehouses.

## ADVANTAGES

- » Solvent free.
- » Fast application, self-smoothing
- » Easy to clean.
- » Provides seamless hygienic floor.
- » Excellent adhesion to concrete.
- » Flexible.
- » Hard wearing system.
- » Resists a wide range of chemicals, consult DCP technical department for more details.

## STANDARDS

Gripdeck Flexcoat SL complies with EN 13813, SR-B2.0-AR1.0-IR10.

## TECHNICAL PROPERTIES:

Colour:	Available in a wide range of colours
Mixed density:	1.65 – 1.75 kg/m <sup>3</sup>
Pot life:	15 min @ 20°C
Foot traffic:	After 16 hr @ 20°C
Light wheeled traffic:	After 24 hr @ 20°C
Vehicular traffic:	After 72 hr @ 20°C
Full cure:	7 days @ 20°C
Bond strength: ASTM D4541	≥ 2 MPa (substrate failure)
Shore D hardness: ASTM D2240	≥ 40
Minimum application temperature:	15°C
Slip resistance pendulum test: BS7976-2	Dry > 45
VOC: ASTM D2369	< 5 g/l (comply with LEED)

## METHOD OF USE

### SUBSTRATE PREPARATION

The substrate must be clean, dry, even, dense and free from oil, grease, dust and other contaminants, and contain a functioning damp proof membrane. A clean surface will ensure maximum adhesion between the substrate and the coating.

Concrete floors must be a minimum of 28 days old and have a minimum compressive strength of 25 N/mm<sup>2</sup>, a minimum pull-off strength of 1.5 N/mm<sup>2</sup>, and a maximum concrete relative humidity of 75% (max. moisture content of 4%), relative humidity can be measured by using hygrometers.

### SURFACE PREPARATION

Substrates should be prepared by mechanical means using vacuum enclosed abrasive blast cleaning or diamond grinding equipment, or other suitable removal methods to remove laitance and previous surface treatments followed by thorough vacuuming leaving an open textured surface.

Following the preparation of a concrete surface, care should be taken to ensure that any surface irregularities are filled with a twin pack epoxy putty such as Quickmast 341.

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## PRIMING

Concrete substrates should be primed with Strongcoat Primer. The primer should be allowed to cure for 24 hours.

Use lambs wool roller to apply the primer. More than one coat may be required for highly porous or textured surfaces. (Check Strongcoat Primer Data Sheet for further details).

## MIXING

Gripdeck Flexcoat SL comprises two components, a base and a hardener, which are supplied pre-weighted in the correct proportions.

Under no circumstances should part mixing be carried out. The contents of each component should be thoroughly stirred separately to disperse any possible settlement.

Taking care to ensure that the bottom and sides are thoroughly scraped, transfer the entire contents of the hardener component into the base component.

Using a power whisk attached to a slow speed electric drill, mix for approximately 5 minutes while avoiding air entrainment until uniform colour and consistency are achieved. Scrape down the sides after 2 minutes to ensure that all materials are fully incorporated. Remix for a further 3 minutes.

*Note: never mix Gripdeck Flexcoat SL by hand as this could lead to areas of uncured material.*

## APPLICATION

Once mixed, the material should be immediately applied, ensuring that a continuous coating is obtained. Apply the Gripdeck Flexcoat SL onto the floor using a trowel or pin rake to the required thickness.

Within approximately 10 minutes, thoroughly spike roll Gripdeck Flexcoat SL with a spike roller evenly, finishing in one direction, in order to de-aerate and assist in the flow of the material.

When the material is sufficiently cured, existing movement joints in the sub floor must be carried through into the Gripdeck Flexcoat SL.

Best performance is achieved when a minimum thickness of 2 mm is available to allow for product flow and smoothing. On highly profiled floors additional material should be allowed to ensure that there is 2 mm above the profile.

## LIMITATIONS

- » The ambient temperature of the works area should be a minimum of 15°C during the application and curing period, otherwise, lower ambient temperature can affect the appearance and performance of the system.
- » Materials and substrate temperature must remain above 10°C all times.
- » Protect the floor from damp, condensation and water for at least 24 hours at 20°C before and after installation.
- » Ensure that the ambient temperature remains above 10°C for at least 24 hours after installation.
- » As with other polyurethane products, Gripdeck Flexcoat SL is not UV stable. Cosmetic yellowing can occur under UV exposure.
- » The substrate and uncured floor must be kept at least 3°C above the dew point to reduce the risk of condensation or blooming on the surface.
- » This flexible product is not suitable for areas where sharp edged furniture or gouging/point loads are experienced.
- » Products from different batches should not be used in the same area or on surfaces close together, as variations in colour may occur between different batches.

## CLEANING

All tools should be cleaned immediately using Xylene. Hardened material must be cleaned mechanically.

## PACKAGING

Gripdeck Flexcoat SL is available in 20 kg packs. Strongcoat Primer is available in 5 kg and 10 kg kits.

## COVERAGE

Gripdeck Flexcoat SL: Approximately 3.4 kg/m<sup>2</sup> to achieve 2 mm dry film thickness when applied to a sealed surface.

*Coverage is dependent on surface profile, texture, and substrate temperature.*

Strongcoat Primer: Approximately 4m<sup>2</sup>/kg at 200 microns per coat.

*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 Primer is being applied.*

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## **STORAGE**

Gripdeck Flexcoat SL has a shelf life of 12 months from date of manufacture if stored in dry conditions at temperatures between 10°C and 25°C. in original unopened packs. Do not expose the product to freezing conditions.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

## **HEALTH AND SAFETY**

Gripdeck Flexcoat SL should not come in contact with skin or eyes. Goggles and gloves should be used. In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advice if necessary.

For further information refer to the Material Safety Data Sheet.

## **FIRE**

Gripdeck Flexcoat SL is nonflammable.



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A wide range of construction chemical products are manufactured by DCP which include:

- » 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.

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