

# Gripdeck PU100 System

Flexible polyurethane vehicle decking system



## Description

Gripdeck PU100 System is a hard wearing, flexible polyurethane coating system primarily designed for use in car parks. It has excellent resistance to petrol, battery acid, diesel, brake fluid, de-icing salts, etc. Other applications include walkways, balconies, etc. Gripdeck PU100 System is formulated for easy application by roller or brush.

The Gripdeck PU100 System consists of the following:

- ▲ Gripdeck Primecoat E, a primer with excellent adhesion to concrete, screed and asphalt substrates.
- ▲ Gripdeck P, a pigmented wearing course with excellent resistance to abrasion and chemical attack. Also suitable for outdoor application, which is specifically formulated for color stability and will not discolor on exposure to sunlight or other sources of UV light. It is available in a wide range of colors.
- ▲ Antislip Aggregate, a hard-wearing quartz for producing an anti-slip finish.

## Applications

Gripdeck PU100 System is designed for use in applications, such as:

- ▲ Car park decks.
- ▲ Car park ramps and turning circles.
- ▲ Traffic aisles and parking bays.

## Advantages

- ▲ Excellent chemical resistance.
- ▲ Excellent resistant to petrol, battery acid, diesel and brake fluid.
- ▲ Resistant to de-icing.

## System Specification

The combination of products specified depends on the area within the car park to which the Gripdeck is being applied.

### Exposed and Covered decks

- ▲ Gripdeck Primecoat E.
- ▲ Gripdeck Primecoat E + full blind of Antislip Aggregates.
- ▲ One or two coats of Gripdeck P.

## Method of Use

### Gripdeck Primecoat E

#### Surface Preparation and Priming

To obtain a proper bond the substrate must be structurally sound clean, dry (less than 75% RH measured using a hygrometer, unless it is a suspended deck free to dry from below) and free from dust, laitance, oils, paints or other forms of contamination.

Grit blasting, grinding or scarification can be used to remove laitance and surface contamination.

Areas known to have been subject to heavy contamination should be thoroughly inspected before applying Gripdeck Primecoat E. This is especially important where deposits of oil or grease have collected.

Any irregularities within the substrate should be made good before the application of the Primecoat E. Small defects may be made good using Gripdeck Primecoat E mixed with dry fine sand.

If the substrate has a relative humidity reading greater than 75%, Strongcoat DPM should be used, followed by Gripdeck Primecoat E.

## Mixing

Gripdeck Primecoat E 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 drained, pour the contents of the hardener portion into the resin container.

Using a power whisk attached to a slow speed electric drill, mix for approximately 2 minutes, scrape down and re-mix for a further 1 minute, avoiding the entraining of excessive air, until a uniform consistency is obtained. Allow to stand for 1 minute. If the filler is to be used, add this to the mixed material and mix for a further 1 minute.

*Note: Never mix Gripdeck Primecoat E by hand as this could lead to areas of uncured material.*

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## Application

Once mixing is complete, spread the Gripdeck Primecoat E onto the floor using a squeegee and/or medium pile roller, ensuring it is worked well into the surface.

## Overcoating

Gripdeck Primecoat E may be overcoated as soon as it becomes tack free.

If overcoating of the Gripdeck Primecoat E exceeds 30 hours, light scarification of the surface should be undertaken before further applications of Primecoat E or Wearcoat.

## ***Gripdeck Primecoat E and Antislip Finish (No. 2)***

## Surface Preparation

All surfaces should be properly prepared and primed with Gripdeck Primecoat E before application of the Gripdeck Wearcoat.

## Mixing

Gripdeck Primecoat E 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 components into a separate mixing container.

Using a power whisk attached to a slow speed electric drill, mix for approximately 3 minutes ensuring the mixing head is pushed around the sides and bottom of the mixing container.

*Note: Never mix Gripdeck Primecoat E by hand as this could lead to areas of uncured material. Premixing of the resin component will aid mixing.*

## Application

On completion of mixing immediately apply the Gripdeck Primecoat E at the required thickness and whilst Gripdeck Primecoat E is still wet, seed till fully blinded with Antislip Aggregates (No. 2) at a rate of 3 - 4 kg/m<sup>2</sup> and allow to dry.

All excess aggregates shall be removed before applying the final top coat.

## ***Gripdeck P***

Gripdeck P is a solvent based system and is applied for indoor and outdoor applications. It consists of two components base (colored), and hardener, and is applied on top of Antislip finish system.

## Cleaning

Tools should be cleaned with Quickmast Solvent immediately after use.

## Packaging

Gripdeck Primecoat E is available in 5 and 20 kg packs. Gripdeck P is available in 5 litre packs (6.75 kg) and 20 litre packs (27.0 kg). Antislip Aggregate is available in 25 kg bags.

## Coverage

The coverage obtained will vary depending on the porosity and texture of the surface to which the Gripdeck materials are applied and, if applicable, the type and size of aggregate used.

As a guide, the minimum coverages should be as follows:

Gripdeck Primecoat E: 0.25 – 0.30 kg/m<sup>2</sup>/coat.

Gripdeck P: 0.20 - 0.30 kg/m<sup>2</sup>/coat.

Antislip Aggregate and Gripdeck Aggregate: 3 - 4 kg/m<sup>2</sup>.

## Storage

Store in a dry area at temperatures between 8°C and 35°C.

## Shelf Life

Gripdeck PU100 System has a shelf life of 12 months from date of manufacture if stored un-opened, undamaged, sealed containers, stored under good conditions.

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



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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.

## Cautions

### Health and Safety

Consult the appropriate Material Safety Data Sheet prior to using Gripdeck PU100 System.

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Technical Properties @ 25°C:	Gripdeck Primecoat E	Gripdeck P
Working time:	180 min	200 min
Mix density:	1.1 g/cm <sup>3</sup>	1.35 ± 0.05
Tack-free time:	12 hr	12 hr
Maximum overcoat time:	36 hr	Indefinit (surface should be clean)
Full cure:	7 days	7 days
Adhesion to concrete:	> 1.0 MPa (substrate failure)	> 1.0 MPa (substrate failure)
Adhesion to asphalt:	> 1.0 MPa (substrate failure)	> 1.0 MPa (substrate failure)
Tensile strength: BS6319, Part 7	Not tested	Not applicable
Shore D hardness:	Not tested	> 50
Volume solids:	100%	50 ± 5%
Application temperature range:	Do not apply if the ambient or floor temperature is to fall below 5°C during the first 24 hours or if rain or condensation is likely)	

## Note:

We endeavor to ensure that any advice, recommendation or information we may give in product literature is accurate and correct. However, due to the fact that we have no direct or continuous control over where or how the products are applied, DCP cannot accept any liability either directly or indirectly arising from the use of DCP products, whether or not in accordance with any advice, specification, recommendation or information given by us.



expertise



quality



full range