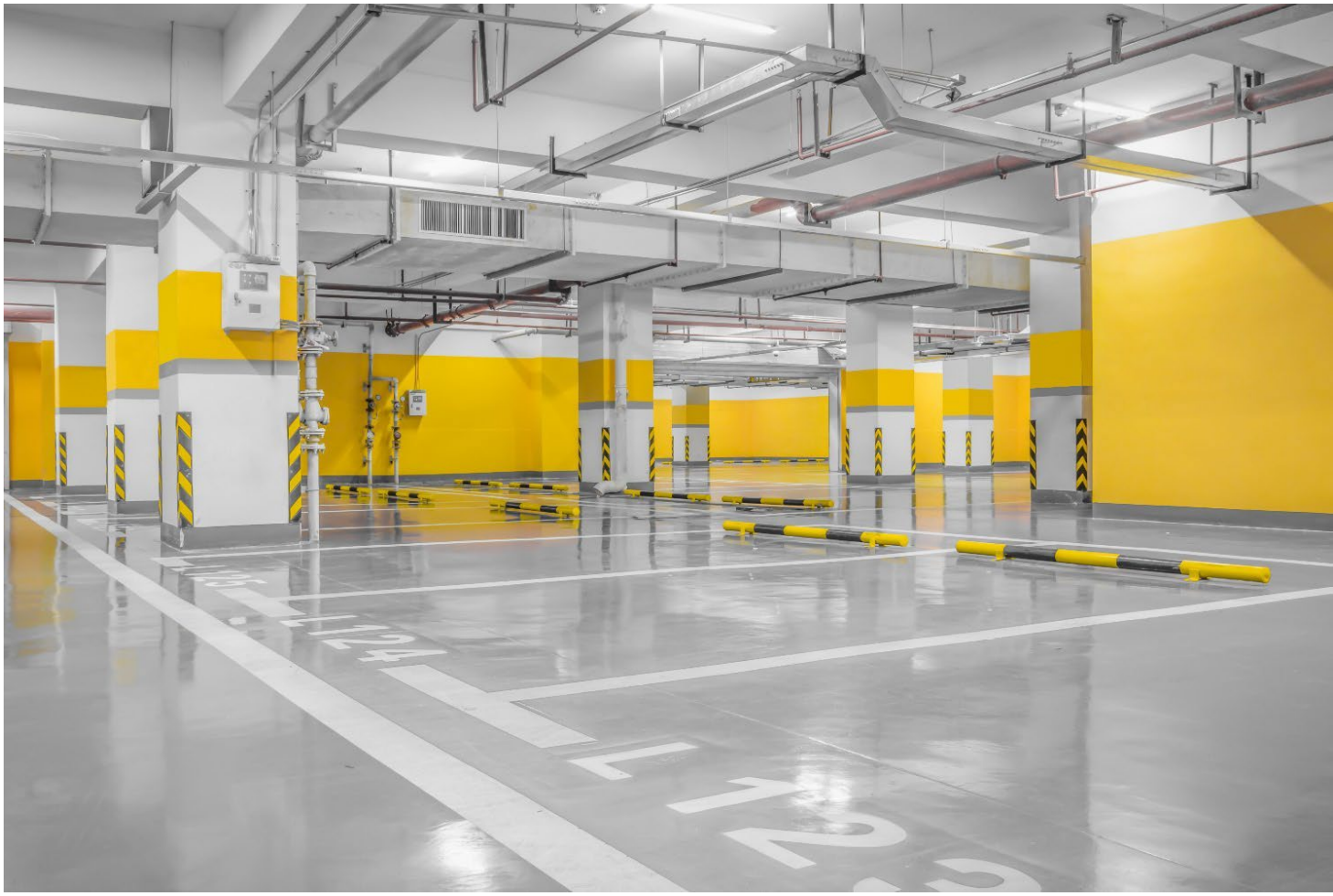
Method Statement

Ref. #: DCP11/05-0190-A-2026



Gripdeck VPU

(UV-resistant and hardwearing polyurethane vehicle decking system)

Table of Content

Section A: General Comments

General Notes:

The information below is a detailed overview of the application of DCP's **Gripdeck VPU** car park decking system and should be read in conjunction with the relevant technical data sheet prior to application. All DCP Products should be applied by experienced specialist contractors.

All the points below assume the correct preparation of the relevant surface.

High-Temperature Working:

Application temperature ranges from 10°C to 30°C and relative humidity must not exceed 75%. In addition, do not apply under rain or snow, and avoid dew points conditions during application. The substrate's temperature must be at least 3°C above the measured due point temperature if any.

It is suggested that, for temperatures above 30°C, the following guidelines are adopted as good working practice:

i. Unmixed materials and equipment should be stored in a cool place and away from direct sunlight.
ii. Avoid application during the peak temperature of the day.
iii. Ensure proper and adequate ventilation.
iv. Plan for enough materials, tools, and labor to ensure a continuous applicant process.

Low-Temperature Working:

It is suggested that, for temperatures below 10°C, the following guidelines are adopted as good working practice:

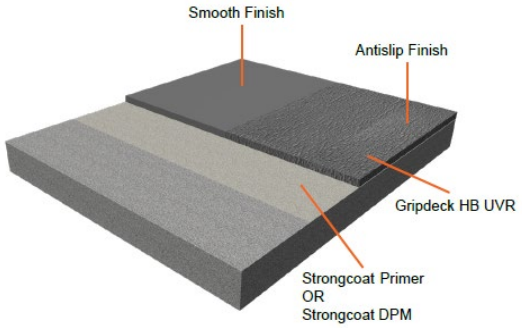
i. Unmixed materials should be stored in a warm area.
ii. Cold temperatures will affect the properties of the material.
iii. Avoid applying the material if the temperature is around 10°C and falling.
iv. When the temperature is around 10°C it is recommended to store the materials in a heated building and only remove them immediately before use.
v. Accelerated heating methods are not to be utilized under any circumstances.
vi. Do not apply under rain or snow, and avoid dew points conditions during application.

System Products:

Strongcoat Primer or **Strongcoat DPM**

Gripdeck HB UVR

Anti-slip Aggregate #2 (for anti-slip finishes)



Gripdeck VPU System Specifications:

The combination of products specified depends on the required finish within the car park area where the system is being applied, as detailed below:

Anti-slip finish:

- One or two coats of **Strongcoat Primer** or **Strongcoat DPM** + full blind of **Anti-slip Aggregate #2**.
- Two coats of **Gripdeck HB UVR**.

Smooth finish:

- One or two coats of **Strongcoat Primer** or **Strongcoat DPM**.
- One coat of **Gripdeck HB UVR**.

Note: Other grades of Anti-slip Aggregates can be used but the finish should be checked and approved by the end-user.

Tools and Equipment:

It is suggested that the following list of equipment is adopted as a minimum requirement

Personal protection	:	*Protective overalls*
	:	*Goggles or a face mask*
	:	*Good quality gloves*
	:	*Safety shoes*
	:	*Safety helmet*
Preparation equipment	:	*Concrete vacuum (Fig.1)*
	:	*Grit blasting machine (Fig.2)*
	:	*Brush (Fig.3)*
Mixing equipment	:	*Power-whisk fitted in a heavy-duty slow speed electric drill (Fig.4)*
	:	*Empty bucket (25 litre) (Fig.5)*
Application equipment	:	*Roller (Fig.6)*
	:	*Rubber spike shoes (Fig.7)*

Fig.1: Concrete vacuum

Fig.2: Grit blasting machine

Fig.3: Brush

Fig.4: Power-whisk fitted in a heavy-duty slow speed electric drill

Fig.5: Empty bucket

Fig.6: Roller

Fig.7: Rubber spike shoes

Section B: Application

Gripdeck VPU is a UV-resistant and hard-wearing polyurethane traffic coating system. It has excellent resistance to abrasion and wear and excellent chemical resistance to petrol, diesel, engine oil, brake fluid, and de-icing salts.

1.0 Substrate Preparation

1.1 New concrete or cementitious substrates should be at least 28 days old and/or have moisture content not exceeding 4% or a relative humidity less than 75%. Perform relative humidity test using a hygrometer.

1.2 Existing concrete floors, which require refurbishment, must be prepared to ensure a strong adhesive bond between the flooring system and the existing floor.

1.3 Concrete floors (new or existing) must be fully cured, must have a minimum compressive strength of 25 N/mm^2, and achieve a minimum pull-off strength of 1.5 N/mm^2.

1.4 Surface should be dry, clean, and free from any laitance, wax, grease, dirt, and oil. In addition, levelled and free from contamination such as mortar, paint splashes, and curing compounds.

1.5 Excess laitance, old coating, or surface treatments are best removed by mechanical grinding, and light sand/grit blasting.

1.6 Mechanical treatment should be followed by vacuum cleaning to remove dust debris or chemical methods such as Don Acid Etch (only in well-ventilated areas).

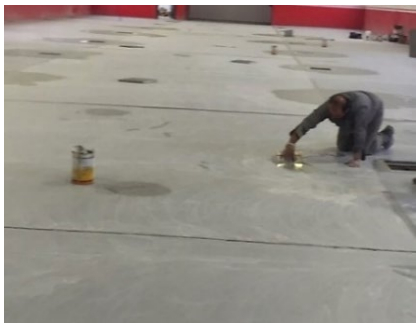
Note: All preparation equipment should be of a type approved by DCP.

1.7 Oil and grease contamination must be completely removed using degreasing products, torching, or any other suitable method which assures the surface is free from any oil traces.

Note: If the surface is contaminated by oil or grease, it is recommended to consult DCP Technical Department to advise on a suitable method for removing the contamination.

1.8 All blowholes, cracks and surface undulations should be repaired using proper putty/mortar as recommended. Consult DCP Technical Department for specific recommendations**.**

1.9 All repairs should be finished smooth and flush with the concrete substrate.




Repair of pinholes and surface defects

1.10 It is essential that the substrate does not suffer from conditions of rising damp.

1.11 If any rising damp is expected, alternative preparations must be approved by DCP prior to commencement of work.

1.12 The final performance of the system relies upon the performance of sound and level substrates.

1.13 Make sure the substrate is flat. A leveling tool should be used to evaluate the flatness of the application area depending on its size.

1.14 Apply the product to a small test area before actual application to check for any problems with the surface preparation.

Joints and moving cracks:

- **Gripdeck VPU** shouldn't be installed over any non-filled/sealed joints or any moving cracks.
- Open up and clean the existing joints in between the concrete slab and vacuum thoroughly**.**
- All dust, loose, and friable material must be removed from all joint voids before application of any joint sealant.
- All existing joints such as (expansion, isolation, construction, and control joints) as well as all moving cracks, must be sealed using a sealing compound specifically designed for use in joints
- It is advisable to reflect any existing joints in the same width, direction, and location on the surface of the finish layer.


2.0 Priming

Priming is done to seal the substrate in order to prevent pin holing caused by the release of air from the substrate and ensure good adhesion. Adequate evaluation of the substrate conditions will determine the type or priming required, reducing the risk of failures. The choice of primer depends on the substrate surface.

Strongcoat Primer

2.1 Mixing

2.1.1 Stir individual components of the Base and Hardener thoroughly before mixing to disperse any possible settlement.

2.1.2 Use a slow-speed drill fitted with a mixing paddle to mix the Base and Hardener components of **Strongcoat Primer.**

2.1.3 Pour the entire content of the Hardener into the Base container.

2.1.4 Ensure that the bottom and sides are thoroughly drained.

2.1.5 Start mixing for approximately 2 minutes until a uniform colour and consistency are achieved.

Notes:

- *Slow speed mixer should be only used.*
- *While mixing, ensure that the mixing blade is kept below the surface of the mix to prevent air entrapment.*
- *Never mix **Strongcoat Primer** by hand as this could lead to areas of uncured material.*
- *Under no circumstances should part mix be carried out*

2.2 Application

2.2.1 Spread **Strongcoat Primer** onto the prepared surface in one coat using a roller at a rate of 0.2 - 0.3 kg/m^2 per coat depending on surface texture and porosity.

Application of Strongcoat Primer

2.2.2 Porous substrates may require a second primer coat if the first coat is directly absorbed into the substrate.

2.2.3 The minimum overcoating times will vary according to the porosity of the substrate and ambient conditions.

2.2.4 To achieve an anti-slip finish, broadcast **Antislip Aggregate #2** at a rate of 2.0 - 4.0 kg/m^2 while the primer is still wet and allow it to dry.

2.2.5 All excess aggregates shall be removed before applying the final topcoats.

Strongcoat DPM [For application onto surfaces with a relative humidity above 75%]

2.3 Mixing

2.3.1 Stir individual components of the Base and Hardener thoroughly before mixing to disperse any possible settlement.

2.3.2 Use a slow-speed drill fitted with a mixing paddle to mix the Base and Hardener components of **Strongcoat DPM**.

2.3.3 Pour the entire content of the Hardener into the Base container.

2.3.4 Ensure that the bottom and sides are thoroughly drained.

2.3.5 Start mixing for approximately 2 to 3 minutes until a uniform colour and consistency are achieved.

Notes:

- *Slow speed mixer should be only used.*
- *While mixing, ensure that the mixing blade is kept below the surface of the mix to prevent air entrapment.*
- *Never mix **Strongcoat DPM** by hand as this could lead to areas of uncured material.*
- *Under no circumstances should part mix be carried out*

2.4 Application

2.4.1 Using a brush or short hair lambswool roller, apply the mixed **Strongcoat DPM** evenly over the prepared surface.

2.4.2 **Strongcoat DPM** can be applied at a rate of 0.27 - 0.29 kg/m^2.

2.4.3 Ensure that a continuous coating is obtained.

2.4.4 To achieve an anti-slip finish, broadcast **Antislip Aggregate #2** at a rate of 2.0 - 4.0 kg/m^2 while the primer is still wet, and allow it to dry.

2.4.5 All excess aggregates shall be removed before applying the final topcoats.

Notes:

- *Coverage figures will vary according to the texture, porosity, and evenness of the surface on which the **Strongcoat DPM** is being applied.*
- *One coat of **Strongcoat DPM** is required where the relative humidity level of the screed is between 75% and 85%. For RH levels between 86% and 98%, apply 2 coats.*

Gripdeck HB UVR

2.5 Mixing

2.5.1 Stir individual components of the Base and Hardener thoroughly before mixing to disperse any possible settlement.

2.5.2 Use a slow speed drill fitted with a mixing paddle to mix the Base and Hardener components of **Gripdeck HB UVR.**

2.5.3 Pour the entire content of the Hardener into the Base container.

2.5.4 Ensure that the bottom and sides are thoroughly drained.

2.5.5 Start mixing for approximately 3 minutes until a uniform colour and consistency are achieved.

2.5.6 Transfer the mixed material to a second mixing vessel and continue mixing for an additional minute.

Notes:

- *Slow speed mixer should be only used.*
- *While mixing, ensure that the mixing blade is kept below the surface of the mix to prevent air entrapment.*
- *Never mix **Gripdeck HB UVR** by hand as this could lead to areas of uncured material.*
- *Under no circumstances should part mix be carried out.*
- *Each independent area of application should have sufficient materials, equipment, and labour.*

2.6 Application

[Smooth finish]

2.6.1 Apply mixed **Gripdeck HB UVR** onto the surface immediately after mixing using a roller.

2.6.2 **Gripdeck HB UVR** should be applied in one coat at a rate of 0.6 kg/m^2.

2.6.3 Ensure that a continuous coating is obtained.

[Anti-slip finish]

2.6.4 Apply mixed **Gripdeck HB UVR** onto the surface immediately after mixing using a roller.

2.6.5 **Gripdeck HB UVR** should be applied in two coats at a rate of 0.3 kg/m^2 per coat.

2.6.6 Apply the second coat once the first coat has initially dried. It is recommended that this be applied at an angle of 90 degrees to the first coat to ensure complete coverage.

2.6.7 Ensure that a continuous coating is obtained.

Application of Gripdeck HB UVR using a roller

Notes:

- *Surface and ambient temperature during coating applications should be between 15 and 25°C.*
- *Material temperatures should be at least 15°C and rising. It is recommended to precondition material for at least 24 hours at temperatures between 15 and 25°C.*
- *Do not proceed with the application if atmospheric relative humidity is, or is anticipated to be, > 75% or if the surface temperature is < 3°C above the dew point.*
- *After application, the surface should be protected from direct contact with water for at least 24 - 48 hours.*
- *Application should not commence when the substrate temperature or the ambient temperature is or is anticipated to be < 12°C during the application or within the curing period.*
- *Avoid condensation by ensuring that the substrate temperature is at least 3°C above the measured dew point. Keep in mind that the substrate temperature may be lower than the ambient temperature.*
- ***Gripdeck HB UVR** reacts with water causing foaming. During application, take care that no water or sweat drops fall into the uncured material. Wear head and wristbands during application.*

3.0 System Coverage

Smooth Finish		
Product	**Coverage**	**Thickness**
Strongcoat Primer* OR **Strongcoat DPM***	0.2 - 0.3 kg/m² OR 0.27 - 0.29 kg/m²	180 - 270 microns OR 200 - 210 microns
Gripdeck HB UVR	0.6 kg/m²	450 microns

**One or two coats, depending on the state of the substrate. Refer to the product Technical Data Sheet for more information.*

Antislip Finish		
Product	**Coverage**	**Thickness**
Strongcoat Primer* OR **Strongcoat DPM***	0.2 - 0.3 kg/m² OR 0.27 - 0.29 kg/m²	180 - 270 microns OR 200 - 210 microns
Antislip Aggregate #2 *while primer is wet*	2 - 4 kg/m²	Up to 1200 microns
Gripdeck HB UVR	Two coats 0.3 kg/m²/coat	450 microns

**One or two coats, depending on the state of the substrate. Refer to the product Technical Data Sheet for more information.*

4.0 Cleaning

4.1 Tools and equipment can be cleaned with a suitable solvent when they are wet; dried materials may be removed mechanically.

5.0 Limitations

5.1 Do not mix part packs under any condition, as this will change the mixing ratio between both components.

5.2 **Gripdeck VPU** should be protected from contact with water for the first 24 hours after application as discoloration could occur.

5.3 Select an appropriate mixing container that will allow proper and efficient mixing.

5.4 For cold weather working (down to 10°C), it is recommended that materials are stored in a heated building and only removed immediately before use. Accelerated heating methods are not to be utilized under any circumstances.

5.5 In hot weather working conditions (30°C and above), it is recommended to keep material in a cool shaded area to ensure ease of application.

Section C: Cautions

Health and safety

Refer to the Material Safety Data Sheet prior using Gripdeck VPU.

Section D: Approval and Variations

This method statement is offered by DCP as a 'standard proposal' for the application of **Gripdeck VPU**. It remains the responsibility of the Engineer to determine the correct method for any given application. Where alternative methods are to be used, these must be submitted to DCP for approval, in writing, prior to commencement of any work. DCP will not accept responsibility or liability for variations to the above method statement under any other condition.