

Gripdeck AJ System

Solvent free slip resistant flexible polyurethane vehicle decking system



Description

Gripdeck AJ System is a hard wearing, solvent free, 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 AJ System is formulated for easy application by squeegee, roller or brush.

The Gripdeck AJ System consists of three layers:

- ▲ Gripdeck Primecoat E, a primer with excellent adhesion to concrete, screed and asphalt substrates.
- ▲ Gripdeck Wearcoat TG, a pigmented wearing course with excellent resistance to abrasion and chemical attack.
- ▲ Gripdeck Wearcoat Plus, for outdoor application, which is specifically formulated for colour stability and will not discolour on exposure to sunlight or other sources of UV light. It is available in a wide range of colours.
- ▲ Antislip Aggregates, a hard-wearing quartz for producing an anti-slip finish.
- ▲ Gripdeck Reactivator, a 1-part polyurethane to reactivate layers if the overcoat time is exceeded.

Applications

Gripdeck AJ 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 resistant to petrol, battery acid, diesel and brake fluid.
- ▲ Resistant to de-icing.
- ▲ Available in a special grade "Gripdeck Wearcoat Plus" for outdoor applications.
- ▲ Fire resistant system.
- ▲ Reduces noise.
- ▲ Slip resistant.
- ▲ Can be applied with smooth slip resistant finish.
- ▲ Suitable for asphalt and concrete substrates.

System Specification

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

Covered decks

Antislip finish for ramps and turning circles

- ▲ Gripdeck Primecoat E + full blind of Antislip Aggregates #2.
- ▲ Two coats for Gripdeck Wearcoat TG.
- ▲ Dry film thickness ≈ 1.4 mm.

Antislip finish for traffic aisles and parking bays

- ▲ Gripdeck Primecoat E+ full blind of Quartz Aggregate #3.
- ▲ Gripdeck Wearcoat TG.
- ▲ Dry film thickness ≈ 0.9 mm.

Smooth finish for traffic aisles and parking bays

- ▲ Gripdeck Primecoat E.
- ▲ Two coats for Gripdeck Wearcoat TG.
- ▲ Dry film thickness ≈ 550 micron.

Exposed decks (outdoor application)

Antislip finish for ramps and turning circles

- ▲ Gripdeck Primecoat E.
- ▲ Gripdeck Primecoat E + full blind of Antislip Aggregates #2.
- ▲ Two coats Gripdeck Wearcoat Plus.
- ▲ Dry film thickness ≈ 1.6 mm.

Antislip finish for traffic aisles and parking bays

- ▲ Gripdeck Primecoat E.
- ▲ Gripdeck Primecoat E+ full blind of Antislip Aggregate #3.
- ▲ One coat Gripdeck Wearcoat Plus.
- ▲ Dry film thickness ≈ 1.1 mm.

Smooth finish for traffic aisles and parking bays

- ▲ Gripdeck Primecoat E.
- ▲ Two coats for Gripdeck Wearcoat TG.
- ▲ Dry film thickness ≈ 550 micron.

Notes: Indoor or exposed decks, where waterproofing surface is required, use Gripdeck EW system.

Other grades of Antislip Aggregates can be used but finish should be checked and approved by end user.

Gripdeck AJ System

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 Gripdeck 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%, two coats of Strongcoat DPM should be used, followed by Strongcoat Primer fully blinded with Medium Quartz Aggregate, before coating with 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.

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.

To obtain an antislip finish, whilst Gripdeck Primecoat E is still wet, seed till fully blinded with Antislip Aggregates at the rate of 2 - 3 kg/m² and allow to dry. All excess aggregates shall be removed before applying the final top coats.

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 Wearcoat TG and Wearcoat Plus

Surface Preparation

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

Mixing

Gripdeck Wearcoat 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 both 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 Wearcoat by hand as this could lead to areas of uncured material. Premixing of the resin component will aid mixing.

Gripdeck AJ System

Application

On completion of mixing immediately apply the Gripdeck Wearcoat at the required thickness to the applied Gripdeck Primecoat E.'

Cleaning

Tools should be cleaned with DCP Solvent immediately after use.

Coverage

Application	Antislip Finish				Smooth Finish	
	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor
	Ramps & turning circles	Ramps & turning circles	Traffic aisles & parking bays	Traffic aisles & parking bays	Traffic aisles & parking bays	Traffic aisles & parking bays
Gripdeck Primecoat E	One coat 0.25 - 0.30 kg/m ² per coat	Two coats	One coat 0.25 - 0.30 kg/m ² per coat	Two coats	One coat 0.20 - 0.30 kg/m ² per coat	
Antislip #2 or #3	#2 Aggregate (fully blinded) 2 - 3 kg/ m ²		#3 Aggregate (fully blinded) 2 - 3 kg/ m ²			
Wearcoat TG	Two coats 0.60 kg/m ² for 1 st coat 0.40 kg/m ² for 2 nd coat		One coat 0.60 kg/m ² per coat		Two coats 0.33 kg/m ² per coat	
Wearcoat Plus		Two coats 0.50 kg/m ² for 1 st coat 0.33 kg/m ² for 2 nd coat		One coat 0.50 kg/m ² per coat		Two coats 0.28 kg/m ² per coat
System thickness	1.4 mm	1.6 mm	0.9 mm	1.1 mm	600 - 700 microns	600 - 700 microns

Packaging

Gripdeck Primecoat E is available in 5 and 20 kg packs.
Gripdeck Wearcoat TG is available in 5 and 15 kg packs.
Gripdeck Wearcoat Plus is available in 5 and 15 kg packs.
Antislip Aggregates is available in 25 kg bags.

Storage

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

Shelf Life

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

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

Gripdeck AJ System

Technical Properties @ 25°C:	Primecoat E	Wearcoat TG	Wearcoat Plus
Working time:	180 min	60 min	20 min
Mixed density:	1.1 g/cm ³	1.6 g/cm ³	1.35 g/cm ³
Tack-free time:	12 hr	4 hr	8 hr
Maximum overcoat time:	36 hr	24 hr	30 hr
Full cure:	7 days	7 days	7 days
Adhesion to concrete:	> 1.0 MPa (substrate failure)	> 1.0 MPa (substrate failure)	> 1.0 MPa (substrate failure)
Adhesion to asphalt:	> 1.0 MPa (substrate failure)	> 1.0 MPa (substrate failure)	> 1.0 MPa (substrate failure)
Tensile strength:	Not tested	10 MPa	9 MPa
Shore D hardness:	Not tested	80	60
Volume solids:	100%	100%	100%
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		
Slip resistance – typical figures: BS 7976, Part 2:2002	Coarse Quartz Aggregate blind TRL slider: 84 dry, 72 wet 4-S slider: 61 dry, 53 wet Coarse Gripdeck Aggregate blind TRL slider: 90 dry, 64 wet 4-S slider: 99 dry, 75 wet		
External fire exposure roof test: BS 476, Part 3:1958	EXT.F.AA (full system test)		

Cautions

Health and Safety

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

More from Don Construction Products

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.

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.

