

Griptop P

Solvent based polyurethane resin floor coating



Description

Griptop P Griptop P is a solvent-based, polyurethane floor coating. It is specially designed to provide floorings with excellent abrasion and chemical resistance. It also has an outstanding UV resistant which makes it an ideal solution for outdoor floors.

Griptop P system offers different finishes for different slip resistance requirements, it can be available in a smooth finish, or can be broadcast with Antislip Aggregate to obtain a slip resistant finish.

Applications

Griptop P is designed as a floor coating suitable for applications such as:

- ▲ Car park decking and domestic garages.
- ▲ Retail and commercial areas.
- ▲ Store rooms and warehouses.
- ▲ Food processing plants and dairies.
- ▲ Hospitals, pharmaceutical industries and laboratories.
- ▲ Production, maintenance and assembly areas.

Advantages

- ▲ Hard-wearing.
- ▲ Excellent UV resistance.
- ▲ Excellent resistance to a variety of chemicals.
- ▲ Easy to clean with a seamless, smooth and semi-glossy finish.
- ▲ Can be available as a smooth coating and as an anti-slip coating using Antislip Aggregate #2 or #3 to obtain different roughness finishes.

System Specification

Two systems are available depending on whether a smooth or an anti-slip finish is required:

To obtain a smooth finish

- ▲ Strongcoat Primer/S (1 coat).
- ▲ Griptop P (1 - 2 coats).

To obtain an anti-slip finish

- ▲ 1st coat Strongcoat Primer/S.
- ▲ 2nd coat Strongcoat Primer/S to be broadcast with Antislip Aggregate #2 or #3 while it is still wet.
- ▲ Griptop P (1 - 2 coats).

Method of Use

Substrate Preparation

Concrete substrates should be fully cured and achieve a minimum compressive strength of 25 N/mm² and a minimum pull-off strength of 1.5 N/mm².

The concrete substrate should be below 75% RH and have less than 4% moisture content. Alternatively, consult with DCP's Technical Department.

Surface Preparation

Concrete surfaces must be degreased using degreasing products, torching or any other suitable method which assures the surface is free from any oil traces. Surfaces should be sound and with no irregularities as they can affect the finish of the applied product.

Concrete surfaces are to be mechanically prepared to remove laitance and achieve a flat surface, grit blasting or surface profiling equipment are preferred. Acid etching can be used after consulting with DCP's Technical Department.

Surface defects such as voids and blowholes should be repaired before application. Consult DCP's Technical Department for the best repair material.

Surfaces must be free of any dust or loose particles before product application. Use suitable methods like vacuuming or sweeping.

If possible, apply the product on a small test area before actual application to check for any problems with the surface preparation.

Application

To obtain a smooth finish

Strongcoat Primer/S

Priming should be done using Strongcoat Primer/S.

Mixing

Prior to mixing, stir individual components of Strongcoat Primer/S.

Griptop P

Taking care to ensure that the bottom and sides are thoroughly scraped, transfer the entire contents of the hardener container into the base container and mix for 2 - 3 minutes using slow speed drill fitted with a suitable paddle.

Note: Never mix Strongcoat Primer/S by hand as this could lead to areas of uncured material.

Application

Apply 1 coat of Strongcoat Primer/S at 0.20 kg/m²/coat. Apply the primer using lamb's wool roller and work it well into the substrate.

Strongcoat Primer/S may be over-coated as soon as it becomes tack free.

If over-coating of the Strongcoat Primer/S exceeds 24 hours, light scarification of the surface should be undertaken before the application of Griptop P.

Griptop P

Griptop P is applied as the topcoat of the system.

Mixing

Prior to mixing, stir individual components of Griptop P. Taking care to ensure that the bottom and sides are thoroughly scraped, transfer the entire contents of the hardener container into the base container and mix for 3 minutes using a slow speed drill fitted with a suitable paddle.

Application

Griptop P can be applied by brush, roller or airless spray machine at a coverage of 0.15 - 0.20 kg/m²/coat.

The first coat should be applied to obtain a continuous uniform coating. The second coat (if needed) should be applied within 24 hours to achieve the maximum adhesion between the two coats.

To obtain an anti-slip finish

Strongcoat Primer/S broadcast with Antislip Aggregate

Strongcoat Primer/S should be mixed following the same procedure mentioned above, apply the first coat of Strongcoat Primer/S at a rate of 0.20 kg/m² using lamb's wool roller and leave it for 12 - 24 hours.

Apply a second coat of Strongcoat Primer/S at the same coverage rate stated above, and while it is still wet it should be broadcasted with Antislip Aggregate #2 or #3 at a rate of 2 - 4 kg/m² and allow to dry for 24 hours. All excess aggregate should be thoroughly removed before applying the top coat.

Griptop P

Griptop P is applied as the top coat of the system.

Application

Griptop P should be mixed following the same procedure mentioned above. Griptop P can be applied by brush, roller or airless spray machine at a coverage of 0.15 - 0.25 kg/m² per coat.

The first coat should be applied to obtain a continuous uniform coating. The second coat (if needed) should be applied within 24 hours to achieve the maximum adhesion between the two coats.

Packaging

Strongcoat Primer/S is available in 5 and 20 kg packs. Griptop P is available in 5 kg and 18 kg packs. Antislip Aggregate is available in 25 kg bags.

Coverage

For a smooth finish:

Strongcoat Primer/S: 0.20 kg/m² per coat.
Griptop P: 0.15 - 0.20 kg/m² per coat.
Approximate system thickness: 0.2 - 0.3 mm.



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For an anti-slip finish:

1st coat Strongcoat Primer/S: 0.20 kg/m² per coat.

2nd coat Strongcoat Primer/S: 0.20 kg/m² per coat.

Antislip Aggregate #2: 2 - 4 kg/ m².

Griptop P: 0.15 - 0.25 kg/m² per coat.

Approximate system thickness: 1.0 - 1.2 mm.

Note: For exposed and high trafficable areas, another coat of Griptop P is recommended to be applied for more durable performance.

Storage

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

Shelf Life

Griptop P 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 advise.

Cautions

Health and Safety

Consult the appropriate Material Safety Data Sheet prior to using Griptop P.

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.

Griptop P

Technical Properties:	Strongcoat Primer S	Strongcoat Primer	Griptop P
Colour:	Clear	Clear	Variable
Pot life:	120 - 180 min	90 - 120 min	4 - 6 hr
Mixed density:	$1.00 \pm 0.05 \text{ g/cm}^3$	$1.10 \pm 0.05 \text{ g/cm}^3$	$1.30 \pm 0.1 \text{ g/cm}^3$
Minimum overcoating time	12 hr	12 hr	12 hr
Maximum overcoating time:	24 hr	24 hr	24 hr
Full cure:	7 days	7 days	7 days
Volume solids:	$87 \pm 5 \%$	100%	$55 \pm 5\%$
Bond strength on C25/30 concrete: ASTM D4541	$\geq 2 \text{ MPa @ 7 days}$ (Substrate failure)	$N \geq 2 \text{ MPa @ 7 days}$ (Substrate failure)	$\geq 2 \text{ MPa @ 7 days}$ (Substrate failure)
Tensile strength: ASTM D412	N/A	N/A	$\geq 4 \text{ MPa @ 7 days}$
Shore D hardness: ASTM D2240	N/A	N/A	≥ 50
Taber abrasion (1000 g, 1000 cycles) ASTM D4060 CS17 wheel	N/A	N/A	$\leq 75 \text{ milligram}$
Application temperature range:	Do not apply if the ambient or floor temperature below 8°C or anticipated to fall below 8°C during the first 24 hours of application		

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.

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