Griptop® LD

Flow applied polyurethane floor topping

DESCRIPTION

Griptop LD is a three-pack water based, flowable, polyurethane topping that provides floor surfaces with a cosmetically attractive matt finish.

Griptop LD is a trowel-applied coating for horizontal surfaces, offering excellent durability for both pedestrian and vehicular traffic. It also provides strong resistance to many chemicals commonly found in industrial environments.

Griptop LD can be supplied in a variety of colours (consult our Sales Department for further details).

APPLICATIONS

Griptop LD is designed for use in a wide range of applications:

- Food and beverage, pharmaceutical, and chemical industries.
- General food, dairies, breweries, processing and manufacturing plants.
- Chemical processing areas.

ADVANTAGES

- Easy to clean.
- Resistant to a wide range of chemicals.
- Hard wearing and good impact resistance.
- Slip resistant.

STANDARD

Griptop LD complies with EN 13813, SR-B2.0-AR0.5-IR8.

TECHNICAL PROPERTIES @ 25°C:

Mixed density:	1.80 ± 0.10 g/cm^3
Pot life:	15 - 25 min
Pedestrian traffic:	18 hr
Light wheeled traffic:	24 hr
Full traffic:	48 hr
Full cure:	7 days
Compressive strength: BS 6319-2	≥ 40 MPa @ 28 days
Flexural strength: ASTM C580	≥ 13 MPa @ 28 days
Tensile strength: BS 6319-7	≥ 6 MPa @ 28 days
Shore D hardness: ASTM D2240	≥ 80
Bond strength: ASTM D4541	≥ 2 MPa @ 28 days (concrete failure)
Taber Abrasion: ASTM D4060 (1000 g, 1000 cycle) H22 Wheel CS17 Wheel	 850 milligram 70 milligram
Impact resistance: ISO EN 6272	8 N.m
VOC:	≤ 20 g/ltr (comply with LEED)

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CHEMICAL RESISTANCE

Griptop LD provides resistance to a wide range of chemicals commonly encountered in the food and pharmaceutical industries, these chemicals include:

- Acetic Acid (50%): found in spirit vinegar
- Lactic acid (10%) @ 60°C: found in milk and dairy products
- Oleic Acid (100%) @ 60°C: used in food processing as an emulsifier
- Citric Acid (25%): found in fruits
- Methanol (100%): representative of alcohols and a range of solvents used in pharmaceuticals.

Griptop LD is also resistant to a wide range of inorganic acids, mineral oils, fats, fuels and solvents.

Please contact DCP Technical Department for advice.

Note: Some staining and discolouration may occur upon contact with certain chemicals, depending on the exposure time, nature and housekeeping regime employed. This will not adversely affect the performance of the product.

METHOD OF USE

SURFACE PREPARATION

The surface must be clean, dry (less than 75% RH measured by hygrometer) and free of laitance (see the DCP Guide to Surface Preparation for further details). To ensure a good bond to the substrate, saw cut grooves that are twice as wide and twice as deep as the screed thickness. The grooves must be opened at a distance of 5 to 10 cm from coves and walls, running parallel to them.

For treatment of surfaces containing expansion joints, consult DCP Technical Department.

PRIMING

Surfaces must be primed with Strongcoat Primer prior to application of Griptop LD (see Strongcoat Primer data sheet for further details).

Note: More than one coat of primer may be required for highly porous or textured surfaces.

For surfaces with RH between 75 and 85%, prime with 1 coat of Strongcoat DPM and allow to dry prior to application of Strongcoat Primer. For surfaces with RH greater than 86%, prime with 2 coats of Strongcoat DPM and allow the second coat to dry before priming with Strongcoat Primer.

OCCASIONAL SPILLAGE

Chemical Resistance after full cure (28 days @ 25°C), ASTM D1308 (Spot - test @ 1 hr)

Organic Acids	
Oleic Acid sat.	R
Citric Acid 25%	R
Acetic Acid 10%	R
Lactic Acid 10%	R
Tartaric Acid 10%	R
Inorganic Bases	
Sodium Hydroxide 40%	R
Ammonia Solution 10%	R
Potassium Hydroxide 50%	R
Aqueous Solutions	
Sodium Chloride sat.	R
Chlorinated Water	R
Solvents	
White Spirit	R
Xylene	R
Fuels	
Petrol	R
Diesel	R
Engine Oil	R
Hydraulic Oil	R
Brake Fluid	R
Inorganic Acids	
Hydrochloric Acid 10%	R
Nitric Acid 10%	R
Phosphoric Acid 20%	R
Sulphuric Acid 25%	R
Sugar Flavourings	
Sugar solution sat.	R
Glucose syrup sat.	R
Carbonated beverages	
Pepsi/Coca Cola	R
Mirinda/Fanta	R
7UP	R

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MIXING

Prior to mixing, stir each component thoroughly to eliminate any settled deposits. The entire contents of the hardener container should be poured into the base container and mix using a Jiffy-type mixer fitted to a slow-speed electric drill for approximately two minutes, or until a smooth, lump-free consistency is achieved. The mixer speed should be maintained at 300 - 400 rpm to prevent air entrapment and ensure a uniform blend.

Once the base and hardener have been mixed, transfer the mixed material into a Casco or Creteangletype mixer, ensuring that the bottom and sides are thoroughly scraped.

Start the mixer and gradually add the entire contents of the filler container, making sure the filler is dry and free from lumps. Continue mixing for approximately two minutes until the mixture is homogeneous.

Note: Never mix Griptop LD by hand as this could lead to areas of uncured material.

APPLICATION

Once mixing is complete, transfer the Griptop LD to the primed surface and, using a straight-edged steel trowel, apply it evenly.

FINISHING

Whilst still wet, thoroughly spike roll the Griptop LD.

LIMITATIONS

- Ensure good ventilation in the application area to prevent excessive ambient humidity, which could affect the product's performance.
- To minimise colour fading and the effect of efflorescence, protect the installed floor from damp, condensation, and water for 4 to 5 days.
- 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.
- In areas of exposure to direct UV light, Griptop LD is susceptible to some yellowing with time, especially with light Griptop LD colours. This will not adversely affect the performance of the product.

OCCASIONAL SPILLAGE

Chemical Resistance after full cure (28 days @ 25°C), ASTM D1308 (Spot - test @ 1 hr)

Electrochemical solutions	
Copper Sulphate 1M	R
Zinc Sulphate 1M	R
Fruit juices	
Orange juice	R
Apple juice	R
Lemon juice	R
Fats	
Vegetable Oil	R
Cleaning Aids	
Dishwashing liquid	R

R: Resistant
RS: Resistant with slight discolouration
SS: Slight softening

WORKING TIME

Griptop LD has a working time of approximately 20 minutes at 25°C.

Note: Never leave the mixed Griptop LD kit to stand for any length of time prior to application as this will considerably shorten its working time.

WORKING CONDITIONS

Griptop LD should not be applied at temperatures less than 5°C.

CLEANING

Once mixing, application and finishing are complete, tools can be cleaned with DCP Solvent.

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PACKAGING

Griptop LD is available in 16 kg (8.5 litre).

THICKNESS RANGE

2 - 4 mm.

COVERAGE

Approximately 2.8 m^2 per kit at 3 mm thickness.

Actual coverage can vary depending on the substrate conditions

STORAGE

Store at temperatures between 5°C and 30°C.

SHELF LIFE

Griptop LD have a shelf life of 6 months from date of manufacture if stored in unopened containers and under good conditions.

If these conditions are exceeded, contact DCP Technical Department for advice.

CAUTIONS

HEALTH AND SAFETY

Consult the appropriate Material Safety Data Sheet prior to using each product.

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.

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