

Griptop LD

Flow applied polyurethane floor topping



DESCRIPTION

Griptop LD is a three-pack water based polyurethane topping that provides floor surfaces with a cosmetically attractive matt finish. It is designed for food and chemical processing areas, dairies, breweries, etc.

Griptop LD is flow applied by trowel to horizontal surfaces and has very good durability towards pedestrian and vehicular traffic. It also has very good resistance to many of the chemicals commonly found in an industrial environment. Griptop LD can be supplied in a variety of colours (consult our Sales Department for further details).

ADVANTAGES

- » Resistant to thermal shock and temperatures between -15°C to 60°C at 3 mm thickness.
- » Easy to clean.
- » Resistant to a wide range of chemicals.
- » Hard wearing and good impact resistance.
- » Slip resistant.

STANDARDS

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

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 discoloration 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.

TECHNICAL PROPERTIES @ 25°C:

| | |
|--------------------------------------------------------------------|-------------------------------------------------------------------|
| Mixed density: | 1.80 ± 0.10 g/cm ³ |
| Pot life: | 20 - 30 min |
| Bond strength: ASTM D4541 | ≥ 2 MPa @ 28 days (concrete failure) |
| Compressive strength: BS 6319-2 | ≥ 42 MPa @ 28 days |
| Flexural strength: BS 6319-3 | ≥ 15 MPa @ 28 days |
| Tensile strength: BS 6319-7 | ≥ 6 MPa @ 28 days |
| Taber Abrasion: ASTM D4060 (1000 g, 1000 cycle) H22 Wheel | 850 milligram |
| CS17 Wheel | 70 milligram |
| Shore D hardness: ASTM D2240 | ≥ 80 |
| Temperature resistance: | -15°C to 60°C @ 3 mm thickness |
| Impact resistance: EN 13813 | 8 N.m |
| Pedestrian traffic: | 18 hr |
| Light wheeled traffic: | 24 hr |
| Full traffic: | 48 hr |
| Full cure: | 7 days |
| VOC: | ≤ 20 g/ltr (based on a fully mixed unit) (comply with LEED) |

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.



Griptop LD

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.

MIXING

Taking care to ensure that the bottom and sides are thoroughly scraped, transfer the entire contents of the Griptop LD Hardener container into the Resin container. Using a Jiffy-type mixer attached to a slow running electric drill, mix for approximately two minutes until a lump-free consistency is obtained. It is important to use a slow speed mixer, operating at 300 – 400 rpm, to ensure that there is no entrapped air and achieve a smooth mixture.

Once the Griptop LD Hardener and Resin have been mixed, transfer all the mixed material into a Casco or Creteangletype mixer, taking care to ensure that the bottom and sides are thoroughly scraped.

Start the mixer and transfer to it the entire contents of the Griptop LD Filler container, taking care to ensure that these are completely dry and lump-free. Continue mixing for approximately two minutes.

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.

OCCASSIONAL 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 |

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.

FINISHING

Whilst still wet, thoroughly spike roll the Griptop LD.

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.

In order to enhance and maintain life expectancy, slip resistance and aesthetic properties, regular cleaning should be done using industry standard cleaning chemicals and equipment. Please contact DCP technical department for advice.

OCCASSIONAL 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

PACKAGING

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

THICKNESS RANGE

2 - 4 mm.

COVERAGE

Approximately 2.8 m² per kit at 3 mm thickness.



Griptop LD

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.



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.