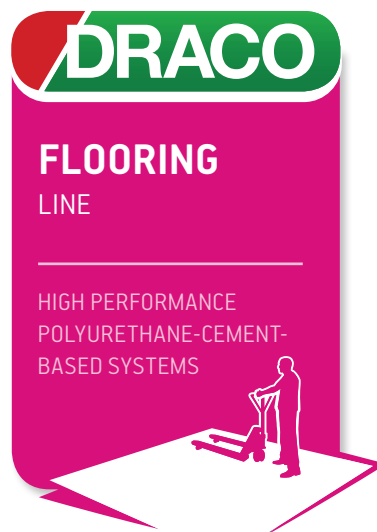


# DURAFLOOR SL

SELF-LEVELLING POLYURETHANE-CEMENT-BASED  
COATING RESISTANT TO IMPACT, SEVERE CHEMICAL  
ATTACK AND HIGH TEMPERATURES (UP TO 80°C)

*Ideal for areas subject to medium to heavy traffic and contact with  
even high-temperature aggressive liquids - thickness 4 to 6 mm*



**DURAFLOOR SL** is a self-levelling polyurethane-cement-based four-component waterborne resin with smooth matte finish. **DURAFLOOR SL** can be applied in 4 to 6 mm thick layers to create heavy-duty seamless flooring resistant to chemical attack, impact, abrasion, frequent washing cycles, high-temperature liquid spillage and discharge, and requiring high hygiene and ease of cleaning.



## ADVANTAGES

**DURAFLOOR SL is a self-levelling polyurethane-cement-based coating for heavy-duty industrial flooring. It has the following features:**

- ✓ **HIGH CHEMICAL RESISTANCE:** DURAFLOOR SL is resistant to a wide range of chemicals used in industrial processes (see chemical resistance table).
- ✓ **RESISTANT TO HIGH TEMPERATURES AND THERMAL SHOCK:** DURAFLOOR SL is completely resistant to the discharge and spillage of liquids up to 80°C.
- ✓ **EXCELLENT RESISTANCE TO MECHANICAL STRESS:** DURAFLOOR SL is resistant to heavy traffic, shocks, impact and abrasion.
- ✓ **FAST INSTALLATION AND MINIMUM DOWNTIME:** DURAFLOOR SL is walkable after 8 hours from installation and becomes fully performing after 48 hours.
- ✓ **HYGIENE AND EASE OF CLEANING:** coatings are easy to clean, inhibit the growth of bacteria, can withstand high-temperature washing and are suitable for places that have to comply with **HACCP guidelines**.
- ✓ **RESISTANT TO MOISTURE:** DURAFLOOR SL tolerates the moisture of the substrate and therefore can be applied on surfaces that have not completely cured.
- ✓ **WATERPROOF:** DURAFLOOR SL does not absorb water.
- ✓ **DURAFLOOR SL complies with the requirements of the Consolidated Law on safety and health at work (Italian Legislative Decree 81/08 and subsequent amendments).**
- ✓ **VOC FREE:** coatings do not contain VOCs (volatile organic compounds) and have low environmental impact.

## USES

**DURAFLOOR SL is ideal as base coat or skim base for antislip DURAFLOOR 4.6 system**, specifically intended for food, pharmaceutical and chemical industries and all plants subject to medium to heavy traffic, where high resistance to chemicals, impact, high-temperature liquid discharge and spillage is required, such as:

- wineries, breweries, bottling plants and coffee roasting plants;
- pasta manufacturing plants, canning factories and beverage production plants;
- chemical and pharmaceutical companies, labs, cold stores;
- food production and preparation industries generally subject to ISO standards and to Italian Legislative Decree 193/07 that enforces Regulation (EC) no. 853/2004 on the hygiene of foodstuffs (HACCP).

© Copyright 2012 - All rights reserved - The information of this technical data sheet actually comply with the present state of our best scientific knowledge. Depending on the accuracy of the various laying phases, for which we may not held liable, changes may also arise. Thus our warranty is only limited to the quality and durability of the products as supplied in compliance with their indications. This edition cancels and replaces the previous ones.

## SUBSTRATE PREPARATION

### SUBSTRATE REQUIREMENTS

Before applying DURAFLOOR SL verify that the substrate has a pull-off strength of at least 1.5 MPa and compressive strength of 25 MPa.

### CLEANING

- ▶ Remove any loose concrete by either mechanical chipping or pressure washing, taking care not to damage the structures.
- ▶ Remove stains, efflorescence or soaked-in stains of oil, grease, paint, lime, dust, dirt etc.
- ▶ Remove any trace of dust, dirt or any residue which may cause the coating to come off.

### REPAIR SMOOTHING AND LEVELLING

#### EXISTING AND NEWLY INSTALLED CONCRETE SUBSTRATES OR RESIN COATINGS

Roughen the surface mechanically (shot-blasting or sanding) to reach the sound, compact concrete so as to enhance adhesion. Any hollows, holes or obvious irregularities must be restored with two-component, shrinkage-compensated epoxy mortar for rapid repair of concrete floors PAVIFIX.

#### HEAVY-DUTY TILE FLOORING

Thoroughly clean by shot-blasting or sanding. Suitably dimensioned slots must be made for anchoring (see the INSTALLATION AND MAINTENANCE MANUAL of DURAFLOOR by DRACO SpA).

### PRIMING

After thoroughly preparing the substrate as indicated above, apply by roller a coat of DURAFLOOR PRIMER polyurethane-cement-based impregnation and adhesion booster resin at a rate of approx.  $0.25 \div 0.35 \text{ kg/m}^2$  to facilitate adhesion of subsequent resin coats.

## MIX PREPARATION

### COMPONENT PREPARATION

The three components must be at a temperature between +15 and +25°C.

Do not use only part of the components as this could cause errors in the mixing ratio, and result in incomplete or no hardening.

Premix the colour part before use. Add the hardener (PART B) to the colour resin (A+D) and mix using a low-speed agitator (300-400 rpm) for about 1-2 minutes until you get a homogeneous mix. Pour the mix into a rotary drum mixer and add the aggregate (PART C) little by little; mix for at least 3 minutes until the mix is smooth and free of lumps and has a uniform colour.

## COATING APPLICATION

### APPLICATION PROCEDURE

Apply **DURAFLOOR SL** on a clean substrate after applying the primer, as indicated in the previous paragraph, and after it has hardened, but however within 24 hours from application of DURAFLOOR PRIMER.

Apply the mix using a smooth or notched metal spatula and level at the desired thickness; then remove air bubbles by means of a spiked roller. Carry out this operation within 3 minutes from application of the mix, in order not to interfere with the self-levelling action and surface finish.

## PRECAUTIONS

- Make sure the substrate is solid, compact and with suitable mechanical strength.
- Read the safety data sheet before using the product.
- The substrate must be at a temperature of at least +5°C.
- Ideal temperature of application is between +15 and +25°C.
- The use of forced air ventilation to promote evaporation is recommended.
- Wear goggles and rubber gloves both during working and when cleaning tools.
- Clean your tools right after application using DILUENTE ECO. Once the product has hardened you can remove it only mechanically.



### HOT WEATHER PRECAUTIONS

- ▶ Store DURAFLOOR SL components in the shade.
- ▶ Work in the mildest hours of the day.
- ▶ Do not work at ambient temperatures above 35°C.



### COLD WEATHER PRECAUTIONS

- ▶ Store DURAFLOOR SL in a frost-free place.
- ▶ Do not apply the product if temperature is below -5 °C.
- ▶ Start to work in the hottest hours of the day and however when ambient temperature is at least 5°C.

## PACKAGING AND STORAGE

DURAFLOOR SL is packed in 18.70kg kits (A+B+C+D):

- 2.32 kg bag (A) + 2.22 kg kg (B) + 14.1 kg bag (C) + 0.45 kg colour part bag (D)

Do not store on the ground. Store the product in a dry and sheltered place at a temperature between +10°C and +30°C. Keep away from direct sunlight. Protect against frost. The resin and hardener components (PARTS A, B, D) keep their features unchanged for 12 months if properly stored in their original packaging, while PART C (aggregates) only for 6 months.



## AVAILABLE COLOURS



DURAFLOOR SL may yellow on the surface, in particular when exposed to UV rays. Light colours are even more subject to yellowing. Some chemicals may stain or fade the surfaces depending on contact duration, temperature and type of chemical. However, this does not affect the chemical resistance and mechanical strength of the product.

## CLEANING OF DURAFLOOR SL FLOOR

Regular and proper cleaning of the floor using adequate cleaners increases the life of the floor and keeps it unchanged over time, and also makes slip resistance stable. DURAFLOOR SL can be easily cleaned with standard cleaning techniques and cleaners.

For more information on floor cleaning, refer to the INSTALLATION AND MAINTENANCE MANUAL of DURAFLOOR by DRACO SpA.

**APPLICATION SPECIFICATIONS** 20°C - 65% R.H.

WORKABILITY AT 20°C	20 minutes
OPERATING TEMPERATURES	4 mm: from -18°C to 65°C 6 mm: from -28°C to 82°C
OPENING TO FOOT TRAFFIC	8 hours
OPENING TO LIGHT TRAFFIC	24 hours
OPENING TO HEAVY TRAFFIC	48 hours
COMPLETE HARDENING	7 days
THEORETICAL CONSUMPTION	DURAFLOOR SL4 (4mm version): 8-10 kg/m <sup>2</sup> DURAFLOOR SL6 (6mm version): 12-14 kg/m <sup>2</sup>

**PERFORMANCE CHARACTERISTICS** Cert. no. LF07011-07020/19

CAPILLARY ABSORPTION - PERMEABILITY	UNI EN 1062-3	0.005 kg/m <sup>2</sup> ·h <sup>0.5</sup>
COMPRESSIVE STRENGTH	UNI EN 13892-2	Class C35 (> 35 N/mm <sup>2</sup> )
FLEXURAL STRENGTH	UNI EN 13892-2	Class F10 (> 10 MPa)
FLEXURAL MODULUS	UNI EN ISO 178	2580 MPa (Class E2)
IMPACT RESISTANCE	UNI EN ISO 6272	IR20 (21 Nm)
WEAR RESISTANCE-BCA	UNI EN 13892-4	AR 0.5 (depth of wear 50 µm)
COEFFICIENT OF LINEAR THERMAL EXPANSION	UNI EN 1770	4.28·10 <sup>-5</sup> /°C
RESISTANCE TO NEGATIVE WATER PRESSURE	UNI EN 8298-8	250 kPa (2.5 bar)
WATER VAPOUR TRANSMISSION RATE - equivalent air layer thickness Sd	UNI EN ISO 7783-1	Thickn. 6mm: Sd < 11 m
BOND STRENGTH TO CONCRETE	UNI EN 13892-8	Class B2.0 (> 2 MPa)
SLIP/SKID RESISTANCE - Class I: wet floor test for internal pedestrian surfaces: units ≥40 - Class II: dry floor test for internal pedestrian surfaces: units ≥40	UNI EN 13036-4	Class I: 46 units Class II: 59 units
REACTION-TO-FIRE CLASS	UNI EN 13501	E <sub>fl</sub>

**Legal notes** - SLCMP version of 01.03.2017

Draco Italiana s.p.a. has adopted the parameters indicated in this data sheet and the related standards for the calculation of the values and technical data contained herein.

Customers shall verify that this data sheet and the values indicated herein apply to their product batch and have not been superseded by later editions. If in doubt, verify that the sheet corresponds to the one available on the website [www.draco-edilizia.it](http://www.draco-edilizia.it) at the time the sales contract was executed and/or by previously contacting the Technical Department.

Any suggestions on the use of the Products provided by our personnel either orally or in writing upon the Customer's request do not constitute additional obligations to the purchase contract and do not imply a contractual obligation for the company. They are based on our experience and limited to the current state of practical and/or scientific knowledge. They are not binding for the client or for the installer. It is the Customer's responsibility to test our products and verify they are suitable for the type of application and use envisaged.

Due to the nature of the product, it is not possible to guarantee perfect colour consistency between batches. Nonetheless, this does not affect in any way the characteristics and performances of the product. It is recommended to use only paints from the same production batch on adjacent surfaces. To avoid any colour differences, check that colour is correct and of the same batch number before applying the product.