DRACOFLOOR PARKING SYSTEM

SEAMLESS FLEXIBLE RESIN FLOORING SYSTEM FOR PARKING STRUCTURES AND EXTERNAL SURFACES ACCESSIBLE TO VEHICLES

DRACOFLOOR PARKING is a seamless elastomeric polyurethane resin flooring system for flexible and water-proofing coating of parking structures and surfaces accessible to vehicles. The flooring is suitable for vehicular traffic; it is resistant to dynamic stresses and cracking, impacts and chemical attack. It contains selected quartz aggregates that make the coating slip-resistant.

Products used:
DRACOPARKING P+QUARTZ 0.4÷0.7 - DRACOPARKING M+QUARTZ 0.7÷1.2 - DRACOPARKING F

ADVANTAGES

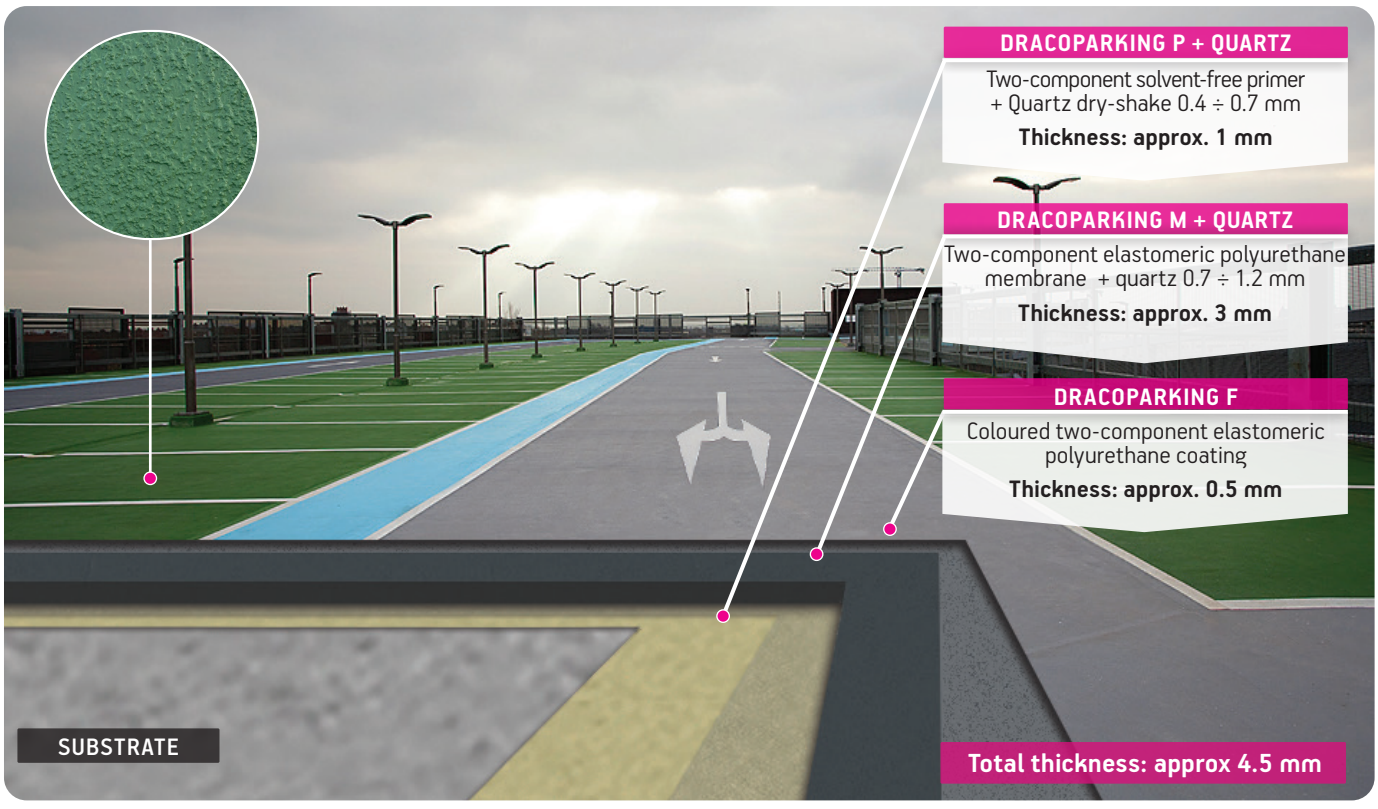
The system has the following characteristics:

- ✓ **seamless, waterproof and slip-resistant coating;**
- ✓ **excellent resistance to abrasion and wear;**
- ✓ **resistant to dynamic stress;**
- ✓ **high flexibility and crack bridging ability;**
- ✓ **excellent resistance to traffic and impact;**
- ✓ **slip-resistance;**
- ✓ **resistant to freeze-thaw cycles, UV stable;**
- ✓ **resistant to aggressive substances like fuels, oils and solvents.**

IDEAL FOR

Coating of floors, including external surfaces subject to traffic such as:

- ✓ **parking, including external parking structures**
- ✓ **rest areas, ramps and multi-storey car parks**
- ✓ **surfaces subject to pedestrian and vehicular traffic**
- ✓ **protection for car parks and roofing.**



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SUBSTRATE PREPARATION

CLEANING

Clean the substrate by removing any greasing residues, flaking parts, loose coatings, surface treatment, dust, dirt or other materials which may adversely affect adhesion and cause the coating to come off. Remove laitance and any surface sealer or curing membrane by vacuum contained shot-blasting until exposing the clean surface. Protect the prepared substrate from further contamination prior to application.

CONCRETE SUBSTRATE

The concrete substrate must have a compressive strength of at least 25 MPa and a pull-off strength of at least 1.5 MPa pursuant to EN 1542.

EXISTING CONCRETE SURFACES

Proceed with shot-blasting or grinding to roughen the substrate and reach the sound, compact concrete, then remove the residues using a vacuum cleaner. In the presence of joints, remove neoprene, if any, and fill the joints.

Repair any hollows, holes or obvious irregularities with the fast curing two-component anti-shrinkage epoxy mortar for spot repair of concrete flooring PAVIFIX.

NEW INDUSTRIAL CONCRETE FLOORING

On concrete surfaces that are new or however in good condition, you simply need to thoroughly sand to remove the non-absorbent surface film that naturally forms on concrete flooring newly installed by trowel.

TREATMENT OF CRACKS AND JOINTS

Repair any existing cracks, fissures, etc.
JOINTS: prior to the application of the DRACOFLOOR PARKING system, construction joints must be treated using the flexible TPE tape FLEXIJOINT – please refer to the technical data sheet for application instructions. After treating the joints, apply a coat of DRACOPARKING P with quartz, then proceed with the application cycle steps described below.

SUBSTRATE MOISTURE

The system tolerates moisture. Hygrometer readings up to 75% relative humidity measured as instructed in BS 8203 can be accepted. Ambient relative humidity must not exceed 75%. The temperature of the substrate and uncured floor must be at least 3°C above the dew point to avoid condensation/efflorescence. Do not apply if precipitation is expected.

AVAILABLE COLOURS

ORANGE	PURPLE	GREY	RED
BLUE	BLACK	YELLOW	SAGE GREEN
LIGHT BLUE	LIGHT GREY	BRICK RED	GREEN

Other colours available upon request. The colours shown may differ from the original product due to changes in reprography and technological supports. Refer to real samples. The same colour may also vary on different products because of the composition and texture of the finishing. Permanent exposure to UV rays may modify the colours over time. The product performance and chemical resistance will not be altered.

DRACOFLOOR PARKING SYSTEM - APPLICATION STEPS

STEP 1 — PRIMER APPLICATION | *DRACOPARKING P* and QUARTZ *0.4 - 0.7 mm*

Premix the components of **DRACOPARKING P** separately in their own pails before mixing. Pour component B and component A in a suitable container and mix for 3-4 minutes using a low-speed drill with mixing paddle until a homogeneous and lump-free consistency is achieved. Apply one single coat of **DRACOPARKING P** at a rate of about 0.4 kg/m² using a squeegee with rubber lip, then back-roll to give a uniform finish. On the fresh product, apply a **light QUARTZ-based dry shake hardener (0.4÷0.7 mm) at a rate of 2 kg/m²**. Once the primer has hardened and however within the following 24 hours, remove any excess quartz with a vacuum cleaner.

APPLICATION SPECIFICATIONS:

Workability and overcoat times vary depending on environmental conditions. The times given herein are calculated at a temperature of 20°C and 65% relative humidity. Comply with the recommendations and preparation and application instructions indicated in the technical data sheets.

PRODUCTS USED:

DRACOPARKING P

TWO-COMPONENT SOLVENT-FREE PRIMER FOR DAMP SUBSTRATES

+ QUARTZ

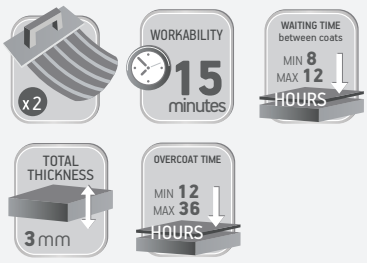
0.4÷0.7mm

✓ PACKAGING (A+B) 10 kg

STEP 2 — MEMBRANE INSTALLATION | *DRACOPARKING M* and QUARTZ *0.7 - 1.2 mm*

Once hardened, but however within 36 hours from application of DRACOPARKING P with quartz dry-shake, apply the coating core. Premix the components of **DRACOPARKING M** separately in their own pails before mixing. Pour component B and component A in a suitable container and mix for 2-3 minutes using a low-speed drill with mixing paddle until a homogeneous and lump-free consistency is achieved. Mix abundantly to prevent incompletely mixed material from depositing on the walls and bottom of the container. Keep the mixing paddle fully submerged to avoid air entrapment. Decant the mixed material to a second mixing container and mix as above for a further minute.
Immediately apply a first coat of **DRACOPARKING M** (1.5 kg/m²) by trowel or spatula. Back-rolling with a spiked roller will reduce the appearance of trowel/spatula marks. Once hardened, but however within the following 12 hours, apply a second coat of **DRACOPARKING M** at a rate of 1 kg/m². Finally apply a **light QUARTZ-based dry shake hardener (0.7÷1.2 mm)** *fresh on fresh* **at a rate of 3 kg/m²**. Once the membrane has hardened and however within the following 24 hours, remove any excess quartz with a vacuum cleaner.

APPLICATION SPECIFICATIONS:



Workability and overcoat times vary depending on environmental conditions. The times given herein are calculated at a temperature of 20°C and 65% relative humidity Comply with the recommendations and preparation and application instructions indicated in the technical data sheets.

PRODUCTS USED:

DRACOPARKING M

TWO-COMPONENT ELASTOMERIC POLYURETHANE MEMBRANE

+ QUARTZ

0.7÷1.2mm

✓ PACKAGING (A+B) 10 kg

DRACOFLOOR PARKING SYSTEM - APPLICATION STEPS

STEP 3

FINISHING COAT | *DRACOPARKING F*

Premix the components of **DRACOPARKING F** separately in their own pails before mixing. Pour component B and component A in a suitable container and mix for 2-3 minutes using a low-speed mechanical mixer (300-400 rpm) to reduce air entrapment until a homogeneous and lump-free consistency is achieved. Mix abundantly to prevent incompletely mixed material from depositing on the walls and bottom of the container. Keep the mixing paddle fully submerged to avoid air entrapment. Decant the mixed material to a second mixing container and mix as above for a further minute. **DRACOPARKING F** must be used immediately after it is prepared. Apply **DRACOPARKING F** by spatula or squeegee at a rate of about 0.9 kg/m² in one single coat and back-roll to give a uniform finish. Once applied, protect the surface from water, humidity and condensate for at least 24 hours.

APPLICATION SPECIFICATIONS:

Workability and overcoat times vary depending on environmental conditions. The times given herein are calculated at a temperature of 20°C and 65% relative humidity Comply with the recommendations and preparation and application instructions indicated in the technical data sheets.

PRODUCTS USED:

DRACOPARKING F

COLOURED TWO-COMPONENT ELASTOMERIC POLYURETHANE RESIN

✓ **PACKAGING (A+B) 10 kg**

APPLICATION CYCLE

DRACOPARKING P + QUARTZ 0.4-0.7 mm

CONSUMPTION:
DRACOPARKING P:
0.4 kg/m² in one coat

QUARTZ 0.4÷0.7 mm:
2 kg/m²

THICKNESS:
approx. 1 mm

DRACOPARKING M + QUARTZ 0.7-1.2 mm

CONSUMPTION:
DRACOPARKING M:
2.5 kg/m² in two coats

QUARTZ 0.7÷1.2 mm:
3 kg/m²

THICKNESS:
approx. 3 mm

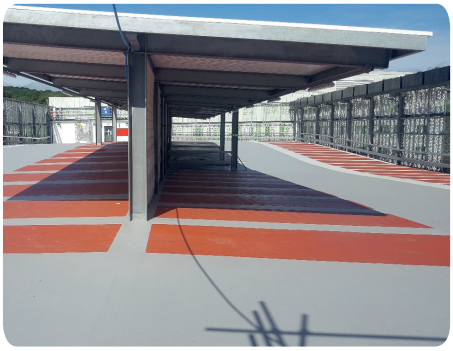
DRACOPARKING F

CONSUMPTION:
DRACOPARKING F:
0.9 kg/m² in one coat

THICKNESS:
approx. 0.5 mm

DRACOFLOOR PARKING SYSTEM

AVERAGE TOTAL THICKNESS:
approx. 4.5 mm



Product consumption in the application cycle is indicative and may vary depending on substrate type and environmental conditions. The indicative consumption of each product is calculated at a temperature between 15 and 25 °C, 50% relative humidity, and considering a compact and adequately prepared substrate.

PERFORMANCE CHARACTERISTICS - UNI EN 1504-2
SURFACE PROTECTION PRODUCT - COATING

CHARACTERISTICS	DRACOFLOOR PARKING system
ABRASION RESISTANCE	weight loss < 3000 mg
PERMEABILITY TO CO_2	S_D > 50 m
PERMEABILITY TO WATER VAPOUR	class III
CAPILLARY ABSORPTION AND PERMEABILITY TO WATER	w < 0.1 kg/m² x $h^{0.5}$
ADHESION AFTER THERMAL CYCLING	≥ 1.5 (1.0) [1] N/mm²
THERMAL SHOCK RESISTANCE	≥ 1.5 (1.0) [1] N/mm²
CHEMICAL RESISTANCE	Meets specification
CRACK BRIDGING ABILITY	B 4.2 (-10°C)
IMPACT RESISTANCE	class III
PULL-OFF STRENGTH	≥ 1.5 (1.0) [1] N/mm²
REACTION TO FIRE	class B_{FL} – s1
SLIP RESISTANCE	class III

[1] The value in brackets is the lowest accepted value of any reading.

PERFORMANCE CHARACTERISTICS - UNI EN 13813 - SR-B1.5
SYNTHETIC RESIN SCREED MATERIAL FOR INTERNAL USE IN BUILDINGS

CHARACTERISTICS	DRACOFLOOR PARKING system
RELEASE OF CORROSIVE SUBSTANCES	SR
WATER PERMEABILITY	NPD
WEAR RESISTANCE	NPD
BOND STRENGTH	1.5
IMPACT RESISTANCE	NPD
SOUND INSULATION	NPD
SOUND ABSORPTION	NPD
THERMAL RESISTANCE	NPD
CHEMICAL RESISTANCE	NPD
REACTION TO FIRE	class E [2]

[2] According to Commission Decision 2010/85/EU of 9 February 2010, the product satisfies all of the requirements for the performance characteristic 'reaction-to-fire' class E without need for further testing.

CHEMICAL RESISTANCE

CHEMICAL SUBSTANCE	DRACOFLOOR PARKING
PETROL	+
DIESEL FUEL	+
KEROSENE OIL	+
ENGINE OIL	+
HYDROCHLORIC ACID (10%)	+
NITRIC ACID	+
PHOSPHORIC ACID	+
SULPHURIC ACID (30%)	+
ORGANIC ACIDS	=
SODIUM HYDROXIDE (50%)	+

Legend

++ No alteration, even in case of long-term exposure

\+ No alteration in case of short-term exposure.

= May cause chromatic or surface alterations - it is recommended to remove the substance within 24 hours.

\- The substance may alter the surface if in contact for more than 8 hours.

SYSTEM PERFORMANCE CHARACTERISTICS

Resistance to impact	+++
Slip-resistance	+++
Resistance to chemical attack	+++
Resistance to abrasion	++
Resistance to traffic	++
Resistance to UV-rays	+++

Legend

++++ VERY HIGH

+++ HIGH

++ MODERATE

\+ MODERATE-LOW

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** 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.