

FOX MULTIDECK SYSTEM FOX CARPARK 5541 RF 4,0-4,5 mm (OS11B)

Polyurethane Based Car Park Coating System (RAMP-FLOOR)

Description

FOX CARPARK 5541 RF, is a polyurethane-based, non-yellowing, UV-resistant, flexible, high-wear car park flooring system.

It is OS11b class according to EN 1504-2 and DIN V 18026 standards.

Fields of Application

- Parking lots
- Garages

Advantages

- Suitable for open floors.
- It has UV resistance, does not turn yellow.
- It has the ability to cover cracks.
- It is flexible, resistant to abrasion.
- It is easy to clean.
- It is long lasting.
- Offers different color options.

System Technical Properties

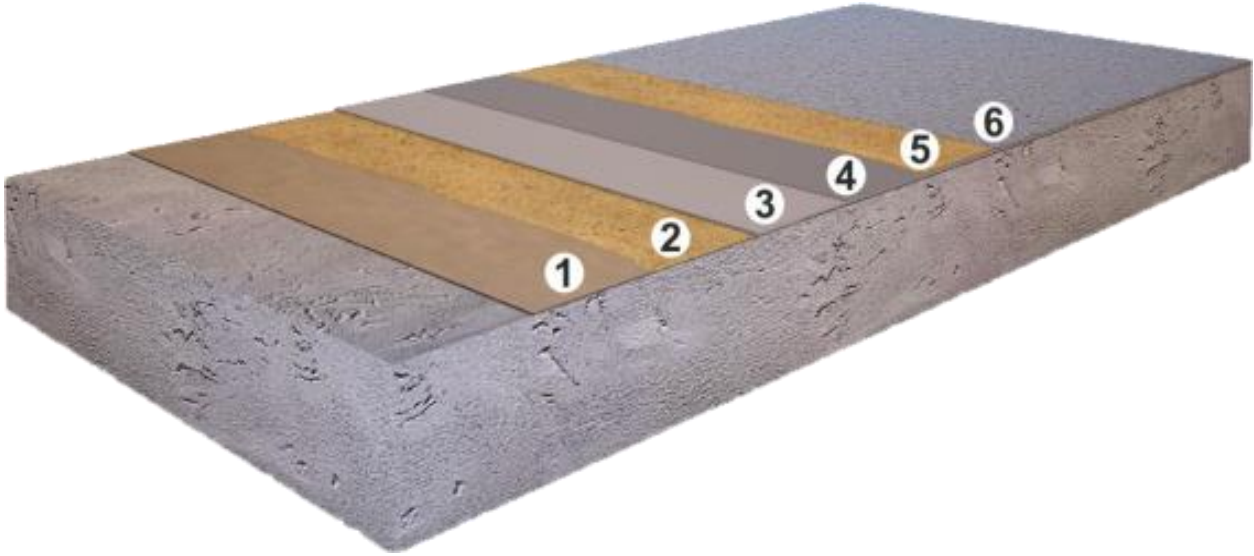
Color		Ral Colors
Application Surface Temperature		+10°C /+30°C
Adhesion Strength	Concrete	>2 N/mm ²
Breaking Strength		20 N/mm ²
Flexural Tensile Strength		60 N/mm ²
Elongation at Break		%80
Shore D Toughness	A+B Component	70
Pendulum Hardness	König ISO 1522	86s
Taber Abrasion Test	1 kg.CS 10,1000 d.	~40 mg
Impact Test	Fall Height 0,5 /1mt	5

The above values are given at +23°C and 50% relative humidity. High temperatures shorten the time, low temperatures lengthen the time.

Watch Points

- Concrete surfaces to be covered must be at least 28 days old. Concrete class must be at least C20 and breaking strength must be at least 1,5 N/mm².
- The water and moisture content in 2 cm concrete depth should be below 4%. Test method: C - Aquameter, CM-Device, Darr Method
- In the application, the ambient and surface temperature should be around +10°C minimum and +30°C maximum. It should not be applied in extremely hot, rainy or windy weather.
- In applications to be carried out in extremely cold weather, the ambient and floor temperature should be increased with the help of heaters, and the packages should be conditioned at approximately 25°C to make them ready for use in order to increase the workability of the material.
- The materials to be used are brought to approximately 20-25°C in case the ambient temperature is very high or low and applied in the field in that way.
- When the coating is fresh, it should be protected from water, rain, dust, wind and foreign objects.
- Pot life and curing times in resin-based systems are affected by ambient temperature, floor temperature and humidity in the air. Curing slows down at low temperatures, which extends pot life, cover time and working time. Curing is accelerated at high temperatures, which shortens pot life, cover time and working time. During the curing of the product, care should be taken to keep the ambient and ground temperature within the minimum and maximum temperature levels given. After the application is completed, the coating should be protected from direct water contact for at least 24 hours. If there is water contact, there will be softening, blistering, misting and discoloration on the coating. This causes the coating to lose its properties. In this case, the coating on the damaged part should be completely removed and redone.
- Consumptions are given for conditions where the ambient and surface temperature is +20°C. Actual consumption may vary depending on the surface structure and ambient temperature. It should not be forgotten that consumption will increase in uneven surfaces and cold weather conditions.





Polyurethane Based Non-Slip Car Park Coating System Ramp / Floors

Layer	Product Name	Consumption kg/m ²	Application Tools	Description
1A	Primer	FOX EPOTHANE® PRIMER HB	Roller and trowel	Epoxy-based, two-component, solvent-free, transparent primer set for damp surfaces.
		0,1-0,3 mm Quartz Sand		60-70 AFS Quartz Sand
1B	Primer	FOX EPOTHANE® PRIMER FL-HB	Roller and trowel	Epoxy-based, two-component, solvent-free, filled, primer set for damp surfaces.
1C	Primer	FOX EPOTHANE® PRIMER HB	Roller or Rubber squeegee	Epoxy-based, two-component, solvent-free, transparent primer set for damp surfaces.
2	Spread	0,2-0,5 mm Quartz Sand	Sand Broadcasting	40-45 AFS Quartz Sand
3	Basecoat	FOX PURATHANE® BASECOAT CP	Trowel	Polyurethane-based, two-component, solvent-free, self-leveling, non-slip and flexible colored flooring system designed for Carpark Floor and industrial floors.
4	Basecoat	FOX PURATHANE® BASECOAT CP	Trowel	Polyurethane-based, two-component, solvent-free, self-leveling, non-slip and flexible colored flooring system designed for Carpark Floor and industrial floors.
5	Spread	0,3-0,8 mm Quartz Sand	Sand Broadcasting	20-30 AFS Quartz Sand
6	Topcoat Coating	FOX PURATHANE® TOPCOAT UV	Rubber squeegee, roller for finish	Polyurethane-based, two-component, solvent-free, glossy, highly abrasion resistant, UV resistant, colored top coat floor coating material.

Priming and consumption in the systems are given as a foresight. According to the ground condition and ambient conditions; priming and consumables may vary.



Application Procedure

Substrate Preparation:

Concrete substrates on which the floor covering will be made should be prepared using abrasive equipment (shot blasting, milling, diamond grinding) to remove the cement slurry and obtain an open porous surface. Weak concrete pieces should be removed from the surface, small gaps and holes should be made completely open. The resulting dust should be cleaned with the help of industrial vacuum cleaner. The gaps, cracks and broken concrete on the sub-surface should be filled and surface smoothness should be ensured. For surface repairs, filling gaps and smoothing the surface, 60-70 AFS (0,1-0,3 mm) quartz sand is applied with **FOX EPOTHANE® PRIMER HB** primer in the desired ratio (from 1/1 to 1/10) depending on the condition of the area to be repaired and it should be applied by mixing.

Epoxy Primer Application:

FOX EPOTHANE® PRIMER HB epoxy based, two component, moisture barrier, low viscosity, solvent free, transparent primer set.

Application:

Mix A component **FOX EPOTHANE® PRIMER HB** with a suitable mixer for 1 minute without entraining air. Then pour the B component onto the A component. Stir continuously for 2 minutes until a homogeneous mixture is obtained. After mixing the A and B components, add 60-70 AFS (0,1-0,3 mm) quartz sand at a ratio of 1/1 according to the surface condition. Mix for another 2 minutes until a homogeneous mixture is obtained. Avoid over-mixing to minimize air entrainment. (Mixing tools: a 300-400 rpm electric mixer and epoxy/polyurethane resin mixing tip.) The prepared **FOX EPOTHANE® PRIMER HB** is applied by scraping with a trowel with a consumption of approximately **0,6-1,0 kg/m²**. 40-45 AFS (0,2-0,5 mm) quartz sand about **2,5-3,0 kg/m²** is sprinkled on the primed surface. Before applying **PURATHANE® BASECOAT CP** flooring, the primer should be allowed to dry for a **minimum of 12 hours** (24 hours depending on weather conditions). Before the floor covering is made, the excess remaining on the surface should be scraped off with a scraper, and the nonadherent sands should be cleaned with the help of an industrial vacuum cleaner.

Polyurethane Basecoat Application:

FOX PURATHANE® BASECOAT CP, polyurethane-based, two-component, solvent-free, self-leveling, hard but flexible floor covering material especially designed for parking lots and industrial floors.

Application:

A component **FOX PURATHANE® BASECOAT CP** contains pigment and filler. Mix the A component product thoroughly with an electric mixer and a suitable mixing tip until a homogeneous color is obtained and you are sure that there is no product left on the bottom and sides of the container. After adding the B component product to the A component product completely, mix it for 3-4 minutes until you get a homogeneous mixture. After the mixing process is finished, transfer the product to another container and mix for 1 more minute. Avoid over-mixing to minimize air entrainment. (Mixing tools: a 300-400 rpm electric mixer and epoxy/polyurethane resin mixing tip.)

FOX PURATHANE® BASECOAT CP is applied to the surface using a notched trowel with a consumption of approximately **0,75-1,0 kg/m²**. When the coating reaches the appropriate consistency, a spiked roller should be applied and its air should be removed.

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Application:

A component **FOX PURATHANE® BASECOAT CP** contains pigment and filler. Mix the A component product thoroughly with an electric mixer and a suitable mixing tip until a homogeneous color is obtained and you are sure that there is no product left on the bottom and sides of the container. After adding the B component product to the A component product completely, mix it for 3-4 minutes until you get a homogeneous mixture. After the mixing process is finished, transfer the product to another container and mix for 1 more minute. Avoid over-mixing to minimize air entrainment. (Mixing tools: a 300-400 rpm electric mixer and epoxy/polyurethane resin mixing tip.)

FOX PURATHANE® BASECOAT CP is applied to the surface using a notched trowel with a consumption of approximately **0,75-1,0 kg/m²**. 15 - 25 AFS (0,7-1,2 mm) quartz sand approximately 3,0-3,5 kg/m² is sprinkled on the surface on which **FOX PURATHANE® BASECOAT CP** is applied. Before applying the last coat, the excess remaining on the surface should be scraped off with a scraper, and the nonadherent sands should be cleaned with the help of an industrial vacuum cleaner.

Topcoat Application:

FOX PURATHANE® TOPCOAT UV, modified polyurethane based, two component, UV resistant, high abrasion resistance coating material.

Application:

A component **FOX PURATHANE® TOPCOAT UV** contains color, pigment and filler. Mix the A component product thoroughly with an electric mixer and a suitable mixing tip until a homogeneous color is obtained and you are sure that there is no product left on the bottom and sides of the container. After adding the B component product to the A component product completely, mix it continuously for 3-4 minutes until a homogeneous mixture is obtained. Avoid over-mixing to minimize air entrainment. Mixing tools: (300-400 rpm electric mixer and epoxy/polyurethane resin mixing tip.)

FOX PURATHANE® TOPCOAT UV should be applied to the surface with the help of squeegee in two layers with a consumption of approximately **0,75-1,0 kg/m²**.

Opening Time of the Coating

FOX CARPARK 5541 RF system becomes walkable after 24 hours after the application is completed (at 25°C). However, it reaches its final mechanical and chemical resistance after 7 days. Lower temperatures extend these times.

Cleaning and Maintenance of Coating

Regular cleaning and maintenance prolong the life of the floor and reduces its tendency to get dirty. Carpark floor coverings; It is recommended to clean with neutral detergents or alkalis diluted in water at a concentration of 5-10%. Please contact our technical sales representatives for cleaning, care products and maintenance.

Safety Precautions

During the application, work clothes, protective gloves, glasses and masks in accordance with the occupational and worker health rules should be used. During storage and application, it should not be contacted with the skin and eyes, in case of contact, it should be washed with plenty of water and soap, and if swallowed, a doctor should be consulted immediately. Food and beverage materials should not be brought into the application areas. It should be stored out of the reach of children. For detailed information, the Material Safety Data Sheet should be consulted.

Note

Consumptions for the system given above are based on ideal weather, environment and ground conditions. Changes in ambient and ground conditions can lead to changes in consumption and system solution. Therefore, before the system solution, SARTECH Yapı Malzemeleri San. ve Tic. Ltd. Şti. and place should be seen by the expert staff and/or Expert Practitioner Dealers, and then system solution should be sought.

