

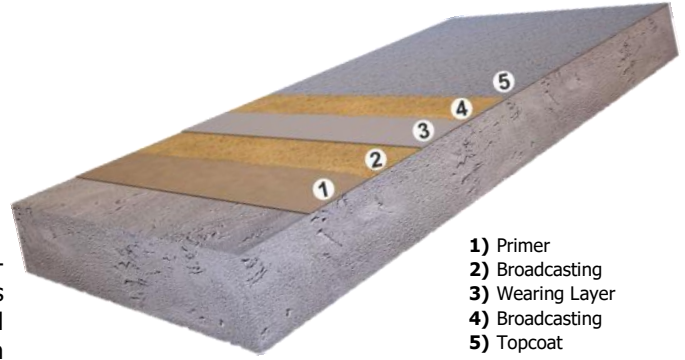
FOX CARPARK SYSTEM

FOX CARPARK 5531 RB

Epoxy-Based, Abrasion Layer Parking Deck Coating System (OS8)

Description

FOX CARPARK 5531 RB is an epoxy-based, abrasion-layer parking deck coating system designed for ramps and basement levels exposed to mechanical and chemical loads. It provides OS8 class performance in accordance with EN 1504-2:2004 and DIN V 18026 standards.



- 1) Primer
- 2) Broadcasting
- 3) Wearing Layer
- 4) Broadcasting
- 5) Topcoat

Epoxy-Based Anti-Slip Parking Deck Coating System/Abrasion Layer System

	Layer	Product Name	Consumption kg/m ²	Description
1(a)*	Primer (for damp substrates)	FOX EPOTHANE® PRIMER HB	approx. 0,3	Epoxy-based, two-component, solvent-free, transparent primer system + 60–70 AFS quartz sand; can be applied with trowel.
		Quartz Sand 0.1–0.3 mm	approx. 0,3	
1(b)*	Primer (filled, for damp substrates)	FOX EPOTHANE® PRIMER FL-HB	approx. 0,5	Epoxy-based, two-component, solvent-free, filled primer system + 60–70 AFS quartz sand; can be applied with trowel.
		Quartz Sand 0.1–0.3 mm	approx. 0,3	
1(c)*	Primer	FOX EPOTHANE® PRIMER	approx. 0,3	Epoxy-based, two-component, solvent-free, transparent primer system + 60–70 AFS quartz sand; can be applied with floor squeegee.
		Quartz Sand 0.1–0.3 mm	approx. 0,3	
2	Broadcasting	Quartz Sand 0.3–0.8 mm	approx. 0,5-1,0	20–30 AFS quartz sand broadcasting.
3	Abrasion Layer	FOX EPOTHANE® BASECOAT 1.4	approx. 0,8	Epoxy-based, two-component, solvent-free, self-levelling coating + 60–70 AFS quartz sand; can be applied with floor squeegee.
		Quartz Sand 0.1–0.3 mm	approx. 0,4	
4(a)	Broadcasting	Quartz Sand 0.3–0.8 mm	approx. 4,0-5,0	20–30 AFS quartz sand broadcasting.
4(b)	Broadcasting	Quartz Sand 0.6–1.2 mm	approx. 5,0-6,0	15–25 AFS quartz sand broadcasting.
5(a)	Topcoat	FOX EPOTHANE® TOPCOAT EU	approx. 0,6-0,8	Epoxy-based, two-component, solvent-free, lightly textured floor coating; can be applied with squeegee and roller.
5(b)	Topcoat	FOX EPOTHANE® BASECOAT 1.4	approx. 0,8-1,0	Epoxy-based, two-component, solvent-free, self-levelling coating; can be applied with squeegee and roller.

types and consumptions are approximate. Depending on substrate condition and environmental factors, primer choice and consumption may vary.

*(a) Option 1

*(b) Option 2

*(c) Option 3



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System Thickness	approx. 2,5-3,0 mm
Surface Preparation	Substrates must be clean, sound, even, and free of voids. All cavities, cracks, and damaged concrete must be repaired, ensuring a smooth and uniform surface. (For best results, use FOX repair mortars and surface preparation products.)
Important Considerations	<ul style="list-style-type: none"> Concrete surfaces to be coated must be at least 28 days old. The concrete class must be at least C20, and the pull-off strength must be minimum 1.5 N/mm². The water and moisture content at a depth of 2 cm in the concrete must be below 4%. Test method: C-Aquameter, CM-Device, Darr Method. During application, the ambient and substrate temperature must be between a minimum of +10°C and a maximum of +30°C. Application should not be carried out in extremely hot, rainy or windy weather conditions. If the ambient temperature is extremely high or low, the materials to be used must be conditioned to approximately 20–25°C before application and applied on-site at this temperature. The fresh coating must be protected from water, rain, dust, wind, and foreign particles. In resin-based systems, pot life and curing times are affected by ambient temperature, substrate temperature, and humidity. At low temperatures, curing slows down, which extends pot life, recoat time, and working time. At high temperatures, curing accelerates, which shortens pot life, recoat time, and working time. During the full curing period, ambient and substrate temperatures must remain within the specified minimum and maximum limits. After application is completed, the coating must be protected from direct water contact for at least 24 hours. If water contact occurs, softening, blistering, hazing, and discoloration may appear on the coating. This causes the coating to lose its performance properties. In such a case, the damaged area must be completely removed and reapplied. Consumption values are given for conditions where ambient and substrate temperature are assumed to be +20°C. Actual consumption may vary depending on substrate structure and ambient temperature. It should be remembered that rough surfaces and cold weather conditions will increase consumption.

Fields of Application

- Parking garages
- Garages
- Industrial floors
- Ramps

Advantages

- Suitable for basement levels and ramps
- High chemical and mechanical resistance
- Easy to clean
- Long service life
- Available in various colors
- Anti-slip surface R10 – R12 (DIN 51130)
- Meets OS8 class according to **EN 1504-2:2004** and **DIN V 18026**

System Technical Properties

Linear Shrinkage	EN 12617-1	≤0,3%
Compressive Strength	EN 12190	≥35 N/mm ²
Abrasion Resistance	EN ISO 5470-1	<3000 mg
CO ₂ Permeability	EN 1062-6	Sd>50 m
Water Vapor Permeability	EN ISO 7783-1 EN ISO 7783-2	Class III
Capillary Water Absorption	EN 1062-3	W<0,1 kg/m ² xh ^{0,5}
Adhesion After Thermal Cycling	EN 13687-1 EN 13687-2 EN 13687-3	≥2,0 N/mm ²
Resistance to Severe Chemicals	EN 13529	Hardness loss < 50%
Impact Resistance	ISO 6272-2	≥4 Nm
Adhesion Strength	EN 1542	≥2,0 N/mm ²
Slip / Skid Resistance	EN 13036-4	Class III: Wet > 55
Fire Classification	EN 13501-1	Efl
Slip Resistance	DIN 51130	R10, R11, R12

Values based on +23°C and 50% relative humidity. Higher temperatures shorten curing times, lower temperatures extend them.



Time to Service

FOX CARPARK 5531 RB becomes walkable after 24 hours (at 25°C). Full mechanical and chemical resistance is achieved after 7 days. Lower temperatures extend these times.

Cleaning and Maintenance

Regular cleaning and maintenance extend the service life of the flooring and reduce staining. **FOX CLEANER FR340** is recommended for cleaning FOX Carpark floor systems. Contact our technical sales representatives for suitable cleaning agents and maintenance procedures.

Safety Precautions

Wear protective clothing, gloves, goggles, and masks during application, following occupational safety regulations. Avoid contact with skin and eyes; in case of contact, wash immediately with plenty of water and soap. If swallowed, seek medical attention immediately. No food or beverages should be brought into the application area. Store out of reach of children. Refer to the Safety Data Sheet (SDS) for detailed information.

Note

The consumption values provided are based on ideal ambient and substrate conditions. Variations in jobsite conditions may change the consumption and system design. Therefore, the jobsite must be inspected by Fox Bau Yapı Kimyasalları A.Ş. technical experts and/or authorized applicators before finalizing the system solution.



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