

## FOX MULTIDECK SYSTEM FOX CARPARK 5521 B 2,5-3,0 mm (OS8)

### Epoxy Based Car Park Coating System (BASEMENT)

#### Description

**FOX CARPARK 5521 B**, is epoxy-based car park coating system designed for basement floors exposed to mechanical and chemical effects.

It is OS8 class according to EN 1504-2 and DIN V 18026 standards.

#### Fields of Application

- Parking lots
- Garages

#### Advantages

- Suitable for use in the basement.
- It has high chemical and mechanical resistance.
- Easy to clean
- Long lasting
- Offers different color options.

#### System Technical Data

|                                 |                        |                            |
|---------------------------------|------------------------|----------------------------|
| Color                           |                        | Ral Colors                 |
| Application Surface Temperature |                        | +10°C /+30°C               |
| Adhesion Strength               | Concrete               | >2 N/mm <sup>2</sup>       |
| Vapor Permeability              | ISO 7783-2             | 4,1 gr/ m <sup>2</sup> gün |
| Compressive Strength            | 7 days                 | 65 N/mm <sup>2</sup>       |
| Tensile Strength in Bending     | 7 days                 | 30 N/mm <sup>2</sup>       |
| Shore D Hardness                | 7 days                 | 85                         |
| Abrasion Strength               | Taber CS10/1kg/1000dv. | 70 mg                      |

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

#### Watch Points

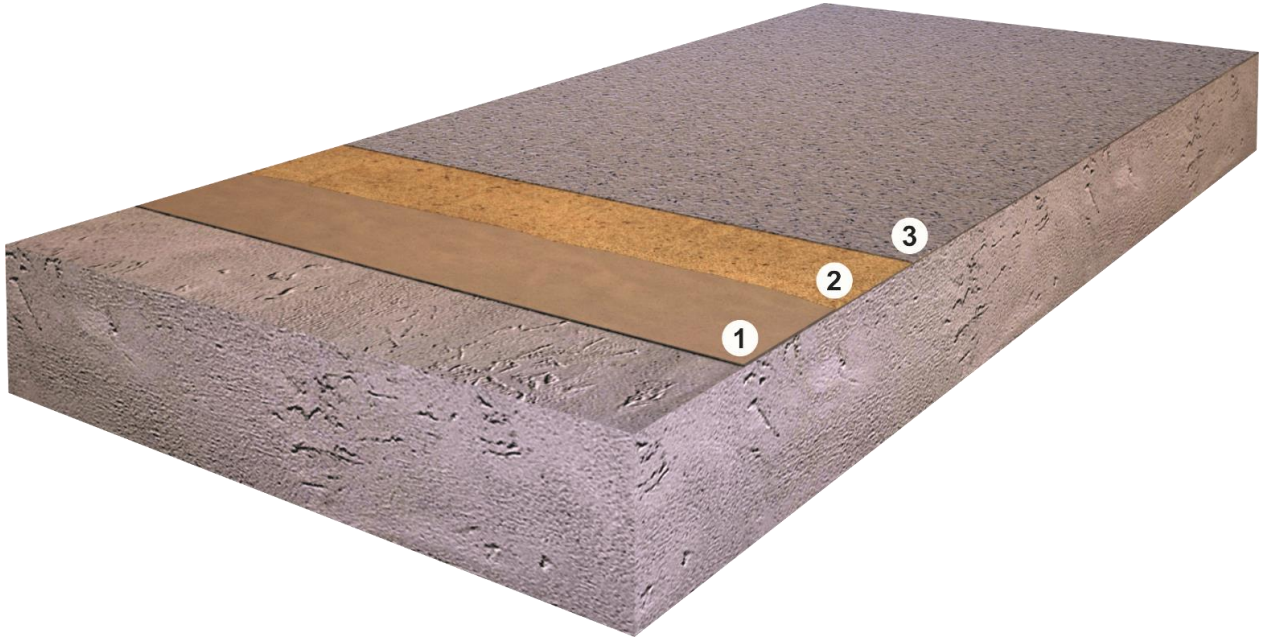
- Concrete surfaces to be coated must be at least 28 days old. Concrete class must be at least C20 and breaking strength must be at least 1,5 N/mm<sup>2</sup>.
- The water and moisture content in 2 cm concrete depth should be below 4%. Test method: C - Aquameter, CM-Device, Darr Method
- In the application, the ambient and ground 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 ground 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.



### Chemical Resistance Chart

|                  |    |                  |    |                     |    |                         |    |
|------------------|----|------------------|----|---------------------|----|-------------------------|----|
| Sugared Water    | +  | Xylene           | +  | Leaded Gasoline     | +  | Styrene                 | +- |
| %30 Salt Water   | +  | Butyl Glycol     | -  | Sulfuric Acid (%30) | -  | Glycerin                | +  |
| Tea              | +  | Propylene Glycol | +- | Toluene             | +  | Olive Oil               | +- |
| Coffee           | +  | %10 KOH          | -  | Petroleum           | +- | Silicone Oil            | +- |
| Ketchup          | +- | Ethanol          | +- | Deionized Water     | +- | Wine                    | +- |
| Mayonnaise       | +- | Butanol          | -  | Beer                | +- | Javel Juice             | +- |
| Vinegar          | +- | Benzyl Alcohol   | +- | Nitric Acid         | -  | Methyl Iso Butyl Ketone | -  |
| Lemon Juice      | +- | Ethyl Acetate    | +- | Petrol              | +- | Diesel Oil              | +- |
| Mineral Water    | +- | Suma             | +- | %10 NaOH            | -  | Caustic Soda            | -  |
| Fruit Juice      | +  | Amyl Alcohols    | +- | Castor Oil          | +- | Turpentine              | +- |
| Carbonated Drink | +  | Methanol         | +- | Soap                | +  | Paraffin                | +- |
| HCL (%30)        | -  | Propanol         | +- | Cyclohexane         | +- | Perchloroethylene       | -  |

This research was carried out at room temperature. High temperatures and/or mixtures of chemicals can affect chemical resistance. Color change may occur with the effect of chemicals. If the surface is exposed to chemicals, it should be cleaned within a maximum of 1 hour. (+) It is recommended to use. (+-) Usage Conditionally recommended. (-) Should not be used.



### Epoxy Based Non-Slip Car Park Coating System / Basement

| Layer | Product Name    | Consumption kg/m <sup>2</sup> | Application Equipment              | 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        |                                    | 0,3 - 0,6   |
| 1B    | Primer          | FOX EPOTHANE® PRIMER FL-HB    | Roller and trowel                  | Epoxy-based, two-component, solvent-free, filled, primer set for damp surfaces.     |
| 2     | Spread          | 0,3-0,8 mm Quartz Sand        | Sand Broadcasting                  | 20-30 AFS Quartz Sand   |
| 3     | Topcoat Coating | FOX EPOTHANE® TOPCOAT EU      | Rubber squeegee, roller for finish | Epoxy-based, two-component, solvent-free, self-leveling coating set                 |

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



## APPLICATION PROCEDURE

### Surface Preparation:

Concrete substrates on which the floor covering will be applied should be prepared by using abrasive equipment (shot blasting, milling, diamond grinding, etc.) in such a way that an open porous surface is obtained by removing the cement grout. 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, depending on the condition of the area to be repaired, with **FOX EPOTHANE® PRIMER** primer in the desired ratio (from 1/1 to 1/10) should be mixed and used.

### Epoxy Primer Application:

**FOX EPOTHANE® PRIMER HB** is an epoxy-based, two-component, solvent-free, low-viscosity transparent primer set that forms an anti-moisture layer.

### 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. If necessary, 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/min electric mixer and epoxy/polyurethane resin mixing tip)

The prepared **FOX EPOTHANE® PRIMER HB** quartz sand mixture is applied by scraping method with a zero comb trowel with a consumption of approximately **0,6-1,0 kg/m<sup>2</sup>**. 20-30 AFS (0,3-0,8 mm) quartz sand approximately **3,0-3,5 kg/m<sup>2</sup>** is sprinkled on the primed surface. Before applying the **FOX EPOTHANE® TOPCOAT EU** epoxy coating, the primer should be allowed to dry for a **minimum of 12 hours** (24 hours depending on weather conditions). Before the epoxy coating is applied, the excess remaining on the surface should be scraped off with a scraper, and the non-adherent sands should be cleaned with the help of an industrial vacuum cleaner.

### Epoxy Topcoat Application:

**FOX EPOTHANE® TOPCOAT EU**, is an epoxy resin-based, two-component, high chemical resistance, solvent-free, self-leveling, colored industrial floor coating.

### Application:

A component **FOX EPOTHANE® TOPCOAT EU** 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 at least 3 minutes until a homogeneous mixture is obtained. Avoid over-mixing to minimize air entrainment. (Mixing tools: a 300-400 rpm/min electric mixer and epoxy/polyurethane resin mixing tip.)

**FOX EPOTHANE® TOPCOAT EU** is applied to the surface by using squeegee and scraping method with a consumption of approximately **0,8-1,0 kg/m<sup>2</sup>**.

### Opening to Use Time of the Coating

**FOX CARPARK 5521 B** 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 the Coating

Regular cleaning and maintenance prolongs the life of the floor and reduces its tendency to get dirty. Fox Carpark floor coatings; 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.

### Security 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.



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### Note

The consumptions for the system given above have been created by considering the ideal air, ambient and ground conditions. Changes in ambient and ground conditions can lead to changes in consumption and system solution. Therefore, before the system solution, SARTECH Yapi Malzemeleri San. ve Tic. Ltd. Sti. A place should be seen by the expert staff and/or Expert Practitioner Dealers, and then system solution should be sought.



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