

## FOX DECODECK SYSTEM

## FOX PEBBLEDECK POOL COATING SYSTEM

### Epoxy Binder, Pool Chemical Resistant, Natural Stone Pool Coating System

#### Description

**Fox Pebbledeck System** is a pool coating system that is resistant to sunlight and pool chemicals, which is formed as a result of the integration of pebbles of different colors and proportions with transparent glass granules and epoxy- based binders.

#### Fields of Application

- Swimming Pools
- Ornamental Pools
- Spa
- Artificial Lakes
- Jacuzzies
- Waterfalls
- Turkish Baths and Saunas
- Springs

#### Advantages

- Durable.
- Resistant to pool chemicals.
- Pebble stone creates the feeling of walking by the sea.
- Creates anti-slip surfaces.
- Provides a harmonious appearance in harmony with nature.
- Provides seamless finish.
- Maintenance cost is very low compared to other systems

#### Technical Features

Compressive Strength		70 Mpa
Flexural Strength		30 Mpa
Shore D Hardness		85
Water Absorption		0,05%
Impact Resistance		40 mg
Coefficient of Friction	Wet	>0,45
Coefficient of Abrasive Resistance	Wet	>0,63
Breaking Strength		2,5 Mpa
High Temperature Resistance		<70°C
Stain Resistance		No Damage
Thermal Shock Resistance		No Damage

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

#### Watch Points

- Concrete surfaces to be covered by the pool must be at least 28 days old. The concrete class must be at least C20 and its tensile strength must be at least 1.5 N/mm<sup>2</sup>.
- Water and moisture content at 2 cm concrete depth should be below 4%. Test method: C - Aquameter, CM-Device, Darr Methot
- In application, the ambient and surface temperature must be around +10°C minimum and +30°C maximum. Application should not be made in extremely hot, rainy or windy weathers.
- In applications to be carried out in extreme cold weather, it should be ensured that the ambient and ground temperature are increased with the help of heaters, and the packages should be conditioned at approximately 25°C and made ready for use in order to increase the workability of the material.
- The materials to be used are brought to about 20-25°C in case the ambient temperature is too high or low and applied in the field in that way.
- While 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. At low temperatures, curing slows down, which increases pot life, overcoating and working time. Curing is accelerated at high temperatures, which shortens pot life, overcoating and working time. During the curing of the product, care should be taken to keep the ambient and ground temperature within the given



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minimum and maximum temperature levels. After the application is completed, the coating should be protected from direct water contact for at least 24 hours. If water contact occurs, there will be softening, swelling, fogging 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 rebuilt.

- Consumptions are given for conditions where 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 the consumption will increase in damaged surfaces and cold weather conditions.



### Fox Pebbledeck System Pool Floor Coating

Layer	Product Name	Description	Coverage kg/m <sup>2</sup>
Primer	FOX EPOTHANE PRIMER HB	Epoxy based, two component, solvent free, transparent primer for damp surfaces	0,25 - 0,4
Binder	FOX STONECARPET BINDER EP	It is an epoxy-based, two-component, high-strength binder of specially selected natural and quartz aggregates	1,5 - 1,8
Coating	PEBBLEDECK AGREGA KAPLAMA	It is the Fox Pebbledeck system aggregate mixture obtained by crushing, sifting and tumbling specially selected natural-colored aggregates.	15,0 - 18,0
Filler	FOX EPOXYFUGA FX142 PEBBLE	Epoxy based, two component, chemical and bacteria resistant, solvent free joint filling material.	1,4 - 1,5

Primer and coverage in the systems are given as estimates. According to the ground condition and ambient conditions; Primer and coverage may vary.

### APPLICATION PROCEDURE



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Pool surface should be clean, dry and free from foreign materials such as all kinds of dirt, oil, grease, coating and surface curing materials, and the pool walls should be plastered with **FOX BINDER FM125** and the surface repairs should be done. The pool floor should be made ready for insulation by using a slope screed. Before the application to be made on old ceramic, btb etc. coating, loose parts are removed and repaired. The surface is primed with Epothane Primer series suitable primer.

After the pool insulation is completed, depending on the type of insulation material made, **Fox Pebbledeck** application can be started in the pool that has reached the sufficient waiting time.

**Epoxy Primer Application on the Pool Floor:**

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

**Technical Features**

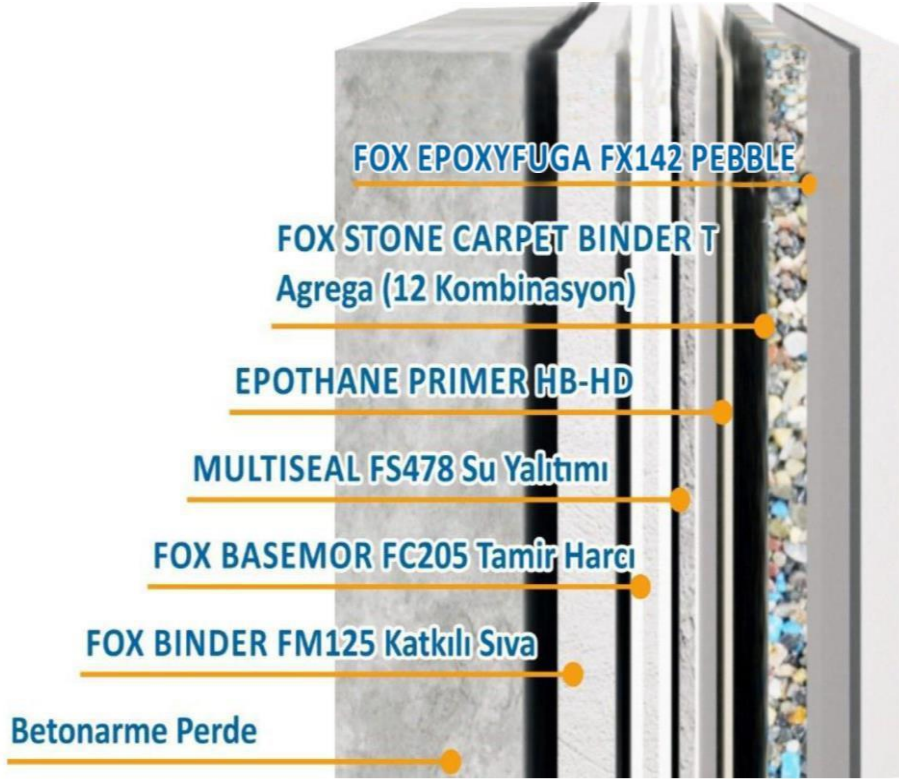
Density	1,03 gr/cm <sup>3</sup>
Color	Transparent, Yellowish
Mortar Features with 14,3% binder	
Compressive Strength	~109 N/mm <sup>2</sup>
Flexural Tensile Strength	~40 N/mm <sup>2</sup>
Splice Strength to concrete	>2 N/mm <sup>2</sup>
Solids by %	% 100
Dilution	No dilution
Application Surface Temperature	+5°C / +30°C
Vapor Permeability ISO 7783-2	4,1 gr/m <sup>2</sup> day
Working Time	25 minutes

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

Make sure that the product temperatures are between +15°C and +25°C before mixing. Mix A component **FOX EPOTHANE® PRIMER HB** with a suitable mixer for 1 minute without dragging air. Then pour the B component on the A component. Mix continuously for 2 minutes until a homogeneous mixture is obtained. If necessary, add 60-70 AFS (0.1-0.3 mm) quartz sand or other fillers after mixing A and B components. Mix for 2 more minutes until you get a homogeneous mixture. Avoid over mixing to minimize air entrainment.  
(Mixing tools: 300-400 rpm electric mixer and epoxy / polyurethane resin mixing tip.)

Prepared **FOX EPOTHANE® PRIMER HB** primer is applied to the surface with a steel trowel or roller method with a consumption of approximately 250-400 gr/m<sup>2</sup>.





### Fox Pebbledeck System Pool Wall Coating

Layer	Product Name	Description	Coverage kg/m <sup>2</sup>
Primer	FOX EPOTHANE PRIMER HB-HD	Epoxy based, two component, moisture barrier, thixotropic, viscous primer	0,6 - 0,7
Binder	FOX STONECARPET BINDER T	It is an epoxy-based, two-component, high-strength binder of specially selected natural and quartz aggregates. It is specially designed for vertical applications	1,0 - 1,2
Coating	FOX PEBBLEDECK AGREGA KAPLAMA	It is the Fox Pebbledeck system aggregate mixture obtained by crushing, sifting and tumbling specially selected natural colored aggregates.	10,0 - 12,0
Filler	FOX EPOXYFUGA FX142 PEBBLE	Epoxy based, two component, chemical and bacteria resistant, solvent free joint filling material.	1,4 - 1,5

Primer and coverage in the systems are given as estimates. According to the ground condition and ambient conditions; primer and coverage may vary.

### Epoxy Primer Application on Pool Walls:

**FOX EPOTHANE® PRIMER HB-HD**, epoxy-based, two-component, thixotropic, moisture-preventing layer, solvent-free, low viscosity transparent primer set.

### Technical Features

Density	1,27 gr/cm <sup>3</sup>
Color	Yellowish, Colored, Filler added
Dilution	No dilution
Application Surface Temperature	+5°C / +30°C
Working Time	20 min
Drying Time	3 hours
Pot Life	25 min
Fully cures	7 days

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



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Before starting the mixture, make sure that the product temperatures are between +15°C and +25°C. Pour the B component **FOX EPOTHANE® PRIMER HB-HD** onto the A component. Mix continuously for 2 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.)

Make sure that the application is made on the whole surface without any gaps. Apply two layers of primer if necessary, depending on the surface condition.

Apply the prepared **FOX EPOTHANE® PRIMER HB-HD** with a zero notched trowel with a consumption of approximately

600-700 gr/m<sup>2</sup>. Make sure that the application is made on the whole surface without any gaps. Apply two layers of primer if necessary, depending on the surface condition.

### Fox Pebbledeck Pool Floor Application

**FOX STONECARPET® BINDER EP** is an epoxy-based, two-component, high-strength, specially selected crushed and tumbled natural color aggregate binder.

#### Technical Features

Color	Light Yellow
Density	0,95 kg/lt
Working Time	45 minutes
Final Cure	3 hours
Working Temperature	+10°C / +30°C
Fully Cures	7 days

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

Place **FOX PEBBLEDECK AGGREGATE** in a clean and dry mixing container. Before mixing, make sure that the product temperatures are between +10°C and +30°C. Mix A component **FOX STONECARPET® BINDER EP** with a suitable mixer for 1 minute without dragging air. Then pour the B component on the A component. Mix continuously for 2 minutes until a homogeneous mixture is obtained.

For the pool floor, add approximately **1.5-1.8 kg/m<sup>2</sup> FOX STONECARPET® BINDER EP** on approximately **15.0-18.0 kg/m<sup>2</sup> FOX PEBBLEDECK AGGREGATE**. Mix for 2-3 more minutes until a homogeneous mixture is obtained.

### Fox Pebbledeck Pool Wall Application

**FOX STONECARPET® BINDER T** is an epoxy-based, two-component, high-strength, designed for vertical applications, specially selected crushed and tumbled natural color aggregate binder.

#### Technical Features

Color	Yellowish, Transparent
Density	1,01 gr/cm <sup>3</sup>
Dilution	No Dilution
Working Time	45 minutes
Working Temperature	+10°C / +30°C
Full Cure	7 days
Final Cure	24 hours

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

Place **FOX PEBBLEDECK AGGREGATE** in a clean and dry mixing container. Before mixing, make sure that the product temperatures are between +10°C and +30°C. Mix A component **FOX STONECARPET® BINDER T** with a suitable mixer for 1 minute without dragging air. Then pour the B component on the A component. Mix continuously for 2 minutes until a homogeneous mixture is obtained.

For the pool wall, add approximately **1.0-1.2 kg/m<sup>2</sup> FOX STONECARPET® BINDER T** to approximately **10.0-12.0 kg/m<sup>2</sup> FOX PEBBLEDECK AGGREGATE**. Mix for 2-3 more minutes until a homogeneous mixture is obtained.



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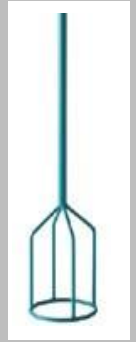
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**FOX EPOXYFUGA FX142 PEBBLE Application:**

**FOX EPOXYFUGA FX142 PEBBLE** is epoxy resin based, specially developed for Fox Pebbledeck Systems, resistant to pool chemicals, high mechanical strength, easily applied, hygienic joint filling material.

**Technical Features**

Structure of the Material	A Component	Epoxy resin
	B Component	Epoxy hardener
Density		1,58 gr/cm <sup>3</sup>
Compressive Strength		≥45 N/mm <sup>2</sup>
Flexural Strength		≥30 N/mm <sup>2</sup>
Tensile Strength		≥2,0 N/mm <sup>2</sup>
Abrasion Strength		<250
Water Absorption	4 hours later	<0,10 gr
Surface Temperature		+10°C / +25°C
Thermal Resistance	Dry environment	-20°C / +70°C
	Wet environment	-20°C / +50°C
Working Time		45 minutes
Open for Pedestrian Traffic		7 days



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

**FOX EPOXYFUGA FX142 PEBBLE** is packaged in appropriate quantities as components. If part of the package is to be used, mix Resin A / hardener B = 100/4 (by weight). It should be mixed for at least 3 minutes with a 400 - 600 rpm mixer tip drill until a two-component homogeneous mixture is formed.

**FOX EPOXYFUGA FX142 PEBBLE** is filled into the joints with a plastic or hard rubber trowel or with the help of a mouth-filling gun. Excess material is peeled off the joints. The first material applied in deep joints will settle in the joint. Make sure that the joint is completely filled. Wait for 5 to 15 minutes depending on the ambient and surface temperature, the surface is cleaned with the help of a suitable sponge and warm detergent and the joints are finalized. The sponge that gets dirty during cleaning should be changed frequently.

**Mixing Ratio**

A Component; 5 kg Epoxy resin

B Component; 0,2 kg Epoxy hardener

Note; Hardener Component (0,2 kg) is in the resin package.

A Component; 20 kg Epoxy resin

B Component; 0,8 kg Epoxy hardener

Not; Hardener Component (0,8 kg) is in the resin package.

**Pool Opening Time**

**FOX PEBBLEDECK** system, fill the pool coating after 7 days of curing. Make sure that the PH values of the pool water are in the range of 7.2-7.6.

**Pool Cleaning and Maintenance**

Make regular daily, weekly, monthly and annual maintenance of the pool periodically. Dilute the clor and other chemicals used for the pool. Use chemicals approved by the health department. Apply **FOX PEBBLEDECK SEALER** protection to your pool every 2 years.

**Safety Precautions**

During the application, work clothes, protective gloves, goggles and masks in accordance with work and worker health rules should be used. Avoid contact with skin and eyes during storage and application. In case of contact, wash

immediately with soap and plenty of water. Consult a doctor immediately if swallowed. Food and beverage materials should not be allowed in the application areas. It should be stored in places out of the reach of children. For detailed information, see the Material Safety Data Sheet.

**Note**

Consumptions for the system given above were created by considering the ideal weather, environment and ground conditions. Changes in ambient and ground conditions can cause changes in consumption and system solution. For this reason, before system solution, it is absolutely necessary for SARTECH Yapı Malzemeleri San. ve Tic. Ltd. Şti. the place should be seen by the expert staff and / or Expert Implementing Dealers, then the system solution should be taken.

