

# FOX ZEUGMA EPOXY TERRAZZO DECORATIVE COATING TECCHNICAL APPLICATION PROCEDURE



## Description

**FOX ZEUGMA EPOXY TERRAZZO** is an epoxy based, smooth finish, easy-to-clean, hygienic, self-leveling colored decorative floor coating system used for floors exposed to very heavy mechanical and chemical effects.

## Fields of Application

- Hospitals,
- Hotels,
- Offices,
- Restaurants,
- Showrooms,
- Schools,
- Banks,
- Shopping Malls,
- Airport Terminals,
- Train Stations,
- Public Buildings,
- Huge Storage Areas,
- Chemistry and Pharmaceutical Industries,
- Hangars,
- Places where hygiene is soke after



## Advantages

- Creates smooth finish.
- Decorative and aesthetic floors are obtained.
- Non-Slip finish can be obtained.
- Has chemical resistance.
- Easy to clean to create hygienic environments.
- It has high wear resistance.
- Has high pressure resistance.
- Easy to maintain.
- Solvent free.
- Gloss or matte finish can be obtained.

## System Technical Features

Color		Ral Colors
Appearance		Matte/Gloss
Application Surface Temperature		+10°C / +30°C
Splice Strength	Concrete	>2 N/mm <sup>2</sup>
Compressive Strength	7 days	>65 N/mm <sup>2</sup>
Flexural Tensile Strength	7 days	>30 N/mm <sup>2</sup>
Shore D Hardness	7 days	85
Pendulum Hardness	König ISO 1522	86s
Taber Abrasion Test	1 kg.CS 10,1000 d.	~40 mg
Pot Life		50 minutes

*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 should be at least 28 days old. The concrete class must be at least C25 and its tensile strength must be at least 2.0 N/mm<sup>2</sup>.
- Water and moisture content at 2 cm concrete depth should be below 4%. Test methods: C - Aquameter, CM-Device, Darr Method
- 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 to be 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 very high and 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. 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 time and working time. During the curing of the product, care should be taken to keep the ambient and ground temperature within the given 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, blistering, 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.
- Coverage is 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 the consumption will increase in damaged surfaces and cold weather conditions.



## Application Steps

### 1. Substrate Preparation

The cement grout on the concrete surfaces to be covered is cleaned from the surface by using abrasive equipment (Shot blasting, milling machine, diamond wipe, etc.). Weak concrete parts should be removed from the surface, small gaps and holes should be fully exposed. The dust that occurs should be cleaned with the help of an industrial vacuum cleaner. The gaps, cracks and broken concretes that appear on the lower surface should be filled and the surface smoothness should be ensured. **FOX EPOTHANE® PRIMER**, is used mixing with 60-70 AFS (0.1-0.3mm) quartz sand for surface repairs, filling gaps and smoothing the surface at the desired rate (1/1 to 1/10) according to the condition of the area to be repaired.

### 2. Epoxy Primer Application

Mix A component **FOX EPOTHANE® PRIMER HB** with a suitable mixer for 1 minute without entraining air. Then pour the B component on 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.) Apply **FOX EPOTHANE® PRIMER HB** with a roller, trowel or zero notched trowel. 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.

Immediately after the **FOX EPOTHANE® PRIMER HB** primer set is applied, silica sand 40-45 Afs (0.2-0.5 mm) should be sprinkled on it, and the primer should be allowed to dry for a **minimum of 12 hours** (24 hours depending on weather conditions). After the excess residues on the surface are scraped off with a blast, the non-adhering sands should be cleaned with the help of an industrial broom.

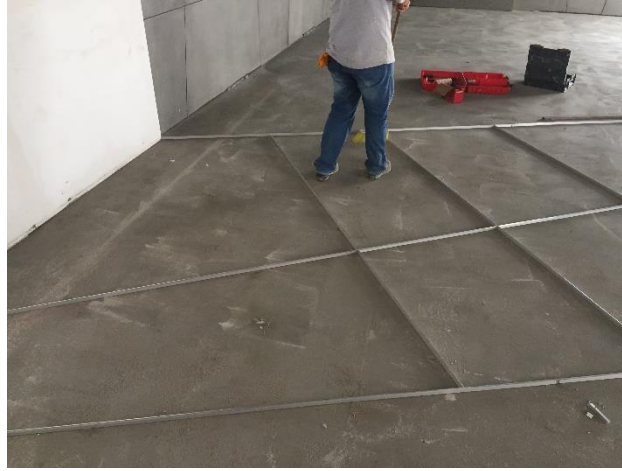


Figure 1 Pre-application Design Preparation



Figure 2 Epoxy Primer Application





**Figure 3** Sanding after Epoxy Primer Application

### 3. Epoxy Terrazzo Application

**FOX EPOTHANE® BASECOAT TERRAZZO** is an epoxy resin-based, two-component, high chemical resistance, solvent-free, self-leveling decorative coating material developed for terrazzo system.

Component A **FOX EPOTHANE® BASECOAT TERRAZZO** contains filler. Mix the A component until it becomes homogeneous. After adding the B component into the A component, mix it for at least 3 minutes until a homogeneous mixture is obtained. After mixing A and B components, add 1,066 units of **FOX EPOTHANE® FILLER TF** filling material and then 3 units of aggregates of desired size to 1 unit of **FOX EPOTHANE® BASECOAT TERRAZZO** by weight. (Rates vary according to weather conditions.) 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.)

The prepared **FOX EPOTHANE® BASECOAT TERRAZZO** aggregate mixture is poured on the surface with a consumption of approximately **25.00-28.00 kg/m<sup>2</sup>** and applied properly with a notched trowel.



**Figure 4** Fox Epothane Basecoat Terrazzo Application



#### 4. Zeugma Epoxy Terrazzo Grinding Application

After the **Fox Zeugma Epoxy Terrazzo** application, the applied surface is wiped with dry diamond grinding heads, coarse, medium and fine, respectively, to reveal aggregates and patterns. In order to obtain the desired visual and touch on the wiped surface, aqueous diamond and resin pad wiping is applied. Wet diamond grinding is done with numbers 30, 70 and 120, respectively. If there are open pores on the surface, the surface is cured with Epothane Basecoat Terrazzo and the pores are filled. The wiping process is continued with 220, 400, 800 and 1500 resin pad wiping, respectively. After all the wiping processes, the surface becomes bright, with the desired pattern and texture.



**Figure 5** Dry Diamond Grinding Application



**Figure 6** Wet Diamond Grinding & Resin Pad Application

#### 5. Fox Domino PU Sealer FD793 Application

**FOX DOMINO PU SEALER FD793** is a polyurethane based, one component, aliphatic, solvent, water repellent, top coat protection material.

It is a ready-to-use, one-component material.

**FOX DOMINO PU SEALER FD793** should be applied to the surface with a roller in two layers with a consumption of approximately **100-150 gr/m<sup>2</sup>**. In order to minimize the roll marks, care must be taken to ensure that successive layers are wet. The application should be made along the short edge and each new application should be made right next to the previous one. It should be ensured that the material is homogeneously distributed and that there are no roller traces by passing over the material with a second roller.





**Figure 7** Fox Domino PU Sealer FD793 Application

## 6. Fox Purathane Topcoat WB Application

Make sure that the product temperatures are between +15°C and +25°C before mixing. Mix A component **FOX PURATHANE TOPCOAT WB** component A product with a suitable mixer for 1 minute without dragging air. Then pour the B component on the A component. Mix 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.)

Apply to the surface with a roller. Make sure that successive layers are wet to minimize roll marks. Apply along the short edge and make each new application right next to the previous one. Make sure that the material is distributed homogeneously and that there are no roller traces by passing over the material with a second roller..



**Figure 9** Purathane Topcoat WB Application

