

# KÖSTER® KB-Pox 002

Epoxy resin suitable as primer, scratch coat and binder

## **Product Description:**

Turkish product name > KÖSTER KB-Pox 002

KÖSTER KB-Pox 002 is a epoxy based, 2 component, solvent free and medium viscosity resin suitable as primer, scratch coat and mortar binder.

KÖSTER KB-Pox 002 is suitable to be used as a primer for epoxy and polyurethane based floors coatings and waterproofing coatings.



## **Technical Data:**

Compressive strength (15 day) EN 196-1 55,0 N / mm<sup>2</sup>

Tensile strength (15 day) EN 196-1 28,0 N / mm<sup>2</sup>

Aderans (concrete rupture) min. 1,5 N / mm<sup>2</sup>

Viscosity 350 - 500 mPa.s (+23°C)

Density (mixing) app. 1,10 g / cm<sup>3</sup>

Pot Life 40 minute (+20°C / 1 lt)

Fully cured in 24 hour (+23°C, % 50 R.H)

Final chemical and physical values are reached at the end of 7 days.

Application temperature min. +10°C

Mixing ration 12 : 5 - A : B (by weight)

## **Characteristics:**

- Tough hard
- Flowable, medium viscosity
- Filling with quartz sand (30 - 50 %)
- High mechanical resistance
- High abrasion resistance
- Physiological harmless after curing

## **Instructions:**

### **Surface preparation:**

Surfaces must be clean, sound and dry. Dust, oil, grease, old coatings, laitance, efflorence, rust, curing compounds, waxes, form oil and similar contaminations should be cleaned or removed prior to application.

Surfaces must be prepared by mechanical means e.g. Blastrac shot blasting.

Minimum requirements

- Free of cement laitance, dust, oil, fat and other contaminants
- Open textured, absorbent surface
- Pull of strength min 1,5 N/mm<sup>2</sup>
- Concrete residual moisture max. 4%

Do not apply on concrete surfaces with rising damp conditions.

Prior to, during and after the application the temperature of the substrate must be at least +3°C above the current dew point temperature.

### **Preparation of mixture:**

Condition material to room temperature. Premix A and B components. Add B component to A component and mix until uniform in color. Transfer mixture to clean container and mix again for at least 1 minute.

Mixing should be done with low speed drill and mixing paddle.

Depending on the conditions, we recommend application of a primer and a scratch coat or a filled primer.

As a primer, do not add any fillers.

As a scratch coat add clean, dry quartz sand ( $\varnothing$  0,1 - 0,4mm > KÖSTER MO 30) to the mixed material (apr. 1 part KÖSTER KB-Pox 002 and 0,5 - 0,8 parts sand by weight).

As a filled primer add clean, dry quartz flour ( $\varnothing$  0,1 mm) to the mixed material (apr. 1 part 002 and 1 part quartz by weight)

### **Application of KÖSTER KB-Pox 002:**

1. Apply the unfilled material (as a primer) using a rubber squeegee to spread the material evenly and back roll with a paint roller.
2. Apply the filled material (as a scratch coat or filled primer) using a trowel or notched craper. The applied material must always be lightly sprinkled with clean, dry quartz sand (apr.1,0 kg/m<sup>2</sup>).

### **Consumption:**

KÖSTER KB-Pox 002 (Primer) \_\_\_\_\_ 0,3 - 0,5 kg/m<sup>2</sup>

### **Packaging:**

A Component \_\_\_\_\_ 12 kg tin bucket

B Component \_\_\_\_\_ 5 kg tin bucket



### **Application of subsequent layers:**

Waiting time before application of subsequent layers depends on temperature and humidity. Under normal conditions subsequent layers should be applied after 24 hours. Do not exceed 48 hours.

### **Cleaning of Tools:**

Clean epoxy with a suitable epoxy thinner or solvent like Xylene while still wet. Cured material can only be removed mechanically.

### **Notes:**

Do not apply below +8°C or if temperatures below +5°C are expected within 24 hours.

Do not apply on wet or frozen surfaces.

Cold temperatures lengthen and hot temperatures shorten pot life and curing time of material.

High levels of humidity might prevent proper curing of epoxy material.

If in doubt perform adhesion test before application.

Do not apply on concrete which is fresher than 3-4 weeks.

### **Storage:**

Store in dry conditions and at room temperatures, in unopened original containers.

### **Shelf life:**

6 months.

### **Health and Safety:**

Avoid inhaling the vapours and contact with skin. Wear suitable protective clothing, gloves and eye / face protection. Adequate ventilation of the working area is recommended. After contact with skin, wash immediately with plenty of water and soap. In case of contact with eyes, rinse

immediately with plenty of water and seek medical advice.

When using do not eat, drink, smoke and keep away from sources of ignition. For additional references to safety-hazard warnings, regulations regarding the transport and waste management please refer to the relevant Material Safety Data Sheet.

Chemical Resistance	
Motor oil	+
Hydraulic oil	+
Pure water	+
Acetic acid %10	+ Loss of color
Sulfuric acid %10	+ Loss of gloss
Sulfuric acid %30	+ Loss of gloss
Caustic soda %20	+
Xylene	-
Solvent naphta	+
Gasoline	+
Diesel	+
Fruit juice	+
Sugar water solution	+
Ammoniac 5%	+
Phosphoric acid%25	+ Loss of color
Hydrochloric acid %10	+
Hydrochloric acid %30	+ Loss of gloss
Formaldehid %37	+
Formic acid %2	+ Loss of color
Lemon juice	+ Loss of color

Vinegar %6	+ Loss of color
Boric acid %4	+
Nitric acid %10	+ Loss of color
Lactic acid %10	+ Loss of gloss
Samples were immersed in chemical for 45 days at 23°C, %50 RH.	

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<b>KÖSTER YAPI KİMYASALLARI İNŞ. SAN. TİC. A.Ş.</b> <b>GEBKİM Kimya İhtisas OSB Atatürk Bulvarı</b> <b>No: 6 41455 DİLOVASI / KOCAELİ</b> <b>16</b>	
<b>DOP NO: 015</b> EN 1504-2 + EN 13813 <b>KÖSTER KB-Pox 002</b> Epoxy resin suitable as primer, scratch coat and binder Coating application (l) 1.2/5.2	
Abrasion Resistance	< 3000 mg
Impact Resistance	Class I
Adhesion Strength by Pull-off Test	Horizontal with Traffic Load $\geq 1,5 \text{ N/mm}^2 (1,0)^b$
Depth of Penetration	Class I
Response to Fire (EN 13501-1)	EN 1504-2 : E EN 13813 : Efl
Dangerous Materials	Materials 5.3 appropriate

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