



# KOROPOX



per 03/2021

## impregnation – surface modification on epoxy resin basis

### DESCRIPTION

KOROPOX is a 2-component, water emulsifiable, transparent impregnation on epoxy-resin basis (concentrate) to improve surfaces of mineral sub-bases. The penetration of liquids and other dirt is reduced. The surfaces are easier to clean and become increasingly shiny. The surface remains open to diffusion.

### APPLICATION

KOROPOX is used for the impregnation of concrete or screed surfaces as well as for mineral, cementitious industrial floors, in storage and production areas, cold stores etc. KOROPOX is especially suitable for the impregnation of KORODUR and NEODUR industrial floors.

### PROPERTIES

- improved surface properties
- increased density
- water-repellent effect
- improved surface hardness and chemical resistance
- less dusting
- improved cleanability (dirt-repellent)
- water dilutable
- low viscosity

### TECHNICAL DATA

<b>Condition</b>	liquid	
<b>Colour</b>	transparent	
<b>Density</b>	1,0 g/cm <sup>3</sup>	
<b>pH-value</b>	approx. 11 (alkaline)	
<b>Air and sub-base temperature</b> The temperature of the sub-base has to be at least 3 °C above the prevailing dew point temperature.	10 °C - 35 °C	
<b>Relative air humidity</b>	at 10 °C maximum 70%, at 30 °C maximum 75%	
<b>Mixing ratio</b>	component A : component B:	1:2
	concentrate of A + B : tap water:	1:1
<b>Processing time</b>	at 10 °C approx. 90 minutes at 20 °C approx. 45 minutes at 30 °C approx. 30 minutes	
<b>Waiting time between the working steps</b>	at 10 °C minimum 18 h, maximum 48 h at 20 °C minimum 12 h, maximum 48 h at 30 °C minimum 16 h, maximum 46 h	
<b>Stress</b>	<b>ready for foot traffic</b>	<b>full stress</b>
	at 10 °C after 18 hours	after 10 days
	at 20 °C after 12 hours	after 6 hours
	at 30 °C after 7 days	after 5 days
<b>Material consumption</b> depending on the absorbency of sub-base	1 <sup>st</sup> working step	100 - 200 g/m <sup>2</sup> KOROPOX: A+B +water (i.e. 50 - 100 g/m <sup>2</sup> concentrate A+B plus the same quantity of water)
	2 <sup>nd</sup> working step	50 - 150 g/m <sup>2</sup> KOROPOX: A+B +water (i.e. 25 - 75 g/m <sup>2</sup> concentrate A+B plus the same quantity of water)

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## PROCESSING

### Sub-base

The sub-base must be dry, solid, clean, absorbent and free from oil, grease and other contamination with separating effect. If required, proper pre-treatment of the sub-base must be carried out. An extremely smooth and closed-pore surface requires mechanical roughening.

### Mixing

Mix components A (resin) + B (hardener) in the specified mixing ratio in slow speed electric stirrer until the mixture is homogenous. For mixing, pour component B completely into component A. Then, whilst stirring, dilute the milky white mixture with tap water (1:1) and continue stirring until the mixture is homogenous. Mixing ratio: component A : component B (= 1:2), then concentrate A+B : tap water (= 1:1).

### Processing

In order to ensure a uniform wetting of the sub-base, the first working step must be carried out by brushing or floating. Give the material enough time to penetrate into the sub-base. Then remove excess material with nylon roll. Depending on the hardening process, and when needed for intensifying, further working steps can be carried out with nylon roll, whereby the roll must be strongly pressed to the sub-base. When processing water-emulsified epoxy resins, take care for good ventilation during processing and drying, i.e. repeated air exchanges. Otherwise, disturbances in reaction and drying have to be expected. As a consequence, the surface may show differing gloss and hardness degrees. Every time work is interrupted, clean tools with water.

In order to respond to the local conditions, we recommend to carry out pilot tests.

## SUPPLY

12 kg twin pack

## STORAGE

Dry, not below 10 °C in closed original packaging. Shelf-life approx. 12 months.

**HINTS** Components A + B – classification acc. to Regulation (EG) No. -1272/2008 (CLP). KOROPOX can cause eye damage, skin irritation and allergic skin reaction. Wear suitable protective gloves, work clothes and safety goggles when working. In case of contact with eyes rinse immediately with plenty of water for 10 - 15 minutes and seek medical advice. If eye irritation persists, consult a doctor. In case of contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, seek medical advice. Keep out of the reach of children. Follow the instructions on the containers.

The specifications provided in this data sheet for application and processing are based on tests carried out by KORODUR under ideal conditions in the laboratory and acc. to the relevant technical regulations. Therefore, the indicated data don't represent directions for application or a quality agreement in the meaning of § 434 (1) BGB, no regulation in the meaning of § 434 (2) sentence 2 BGB (German Civil Code) and no guarantee for practical application. Due to the differing conditions on site, preliminary own tests and suitability checks are required before application. Please consider the currently valid product information as well as the relevant safety data sheet acc. to Regulation (EC) No. 1907/2006 in the latest version – also published on the internet: [www.korodur.de](http://www.korodur.de).