



T 704 / 1005.ENG

KÖSTER® KB-Pox 083 ST

Epoxy based, textured floor coating

Product Description:

Turkish product name > KÖSTER KB-Pox 083 ST

KÖSTER KB-Pox 083ST is a epoxy based, 2 component, solvent free and tixotropic floor coating.

The materials tixotrop properties give it a unique textured surface look and non-skid properties. In combination with suitable primers like KÖSTER KB-Pox 002 it is possible to create economic and high quality flooring systems for industrial applications with a good visual optic and high mechanical resistance.

KÖSTER KB-Pox 083ST is also suitable to be applied on self levelling epoxy coatings or broadcast coating systems.



Standart Colours:

RAL 7001, RAL 7003, RAL 7004, RAL 7015, RAL 7023, RAL 7030, RAL 7032, RAL 7033, RAL 7034, RAL 7035, RAL 7036, RAL 7037, RAL 7038, RAL 7040, RAL 7042, RAL 7045, RAL 7047

Please contact us for other colours.

Applications:

Economical industrial floor coating in areas like production plants, sales rooms, warehouses.

Technical Data:

Viscosity viscous

Pot life app. 35 minute (+ 20 °C / 1 lt)

Curing time app. 24 hour (+ 23 °C and % 50 moisture)

Density (mixing) app. 1,92 g / cm³

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

Application temperature min. + 10 °C

Compressive strength (15 days) EN 196-1 55-65 N / mm²

Tensile strength (15 days) EN 196-1 30 - 33 N / mm²

Adherence 4,2 N / mm²

Mixing ratio 8 : 1 – A : B (weigh)

Chemical Resistance:

Name of Chemical	Resistance
Motor oil	+
Hidrolic fluid	+
Pure water	+
Acetic acid % 10	+ (loss of gloss)
Sulphuric acid % 10	+ (loss of gloss)
Sulphuric acid % 30	+ (loss of gloss and color)
Caustic soda % 20	+
Xylene	-
Solvent naphta	+
Javel water % 14	+
Petrol / diesel	+
Fruit juice (bottled)	+
Sugar solution	+
Ammonia 5%	+



T 704 / 1005.ENG

Phosphoric acid 25%	+
	(loss of gloss)
Hydrochloric acid 10%	+
	(loss of gloss)
Hydrochloric acid 30%	+
	(loss of gloss)
Formaldehyde %37	+
Formic acid 2%	-
Lemon juice	+
	(loss of gloss)
Grape vinegar 6%	+
	(loss of gloss)
Boric acid 4%	+
Nitric acid 10%	+
	(loss of gloss)
Lactic acid 10%	+
	(loss of gloss)

Note : 23 °C ve % 50 R.H. conditions, tested for 45 days (if not noted otherwise)

Characteristics:

- Tough hard
- Textured surface
- 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, efflorescence, 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 are ;

- Free of cement laitance, dust, oil, fat and other contaminants
- Open textured, absorbent surface
- Pull of strength min 1,5 N/mm²
- Concrete residual moisture max. 4 %

Do not apply on concrete surfaces with rising damp conditions or take necessary precautions.

Application of Primer / Scratch Coat:

Depending on substrate conditions the surface must be coated by applying a primer and / or scratch coat with KÖSTER KB-Pox 002 and KB-Pox 008, which must be lightly sprinkled with clean, dry quartz sand.

After curing, remove excess sand carefully.

Preparation of Mixture:

Condition material to room temperature. Premix A component (resin) for a short period. Then add B (hardener) 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 (400 rpm) and suitable mixing paddle.

Application of KÖSTER KB-Pox 083ST

Use a notched rake or roller to apply KÖSTER KB-Pox 083ST evenly with the same layer thickness. Without waiting work the surface with a textured foam roller (picture 2) to give the surface a uniform textured look.

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

Consumption:

KÖSTER KB-Pox 083 ST 0,6 – 0,8 kg /m²

Packaging:

KÖSTER KB-Pox 083 ST 18 kg SET

A component 16 kg

B component 2 kg





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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
- Do not apply on dusting or weak surfaces. If in doubt, perform adhesion test.
- Cold temperatures lengthen and hot temperatures shorten pot life and curing time of material.
- High levels of humidity might prevent proper curing of material.
- Do not add solvents or thinners.
- 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 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.

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KÖSTER YAPI KİMYASALLARI İNŞ. SAN. ve TİC. A.Ş. GEBKİM Kimya İhtisas OSB Atatürk Bulvarı No: 6 41455 DİLOVASI / KOCAELİ 16	
1020 - CPR - 040 051989 DOP NO: 019 EN 1504-2 KÖSTER KB-Pox 083 ST Epoxy based, textured floor coating Coating application (C) 1.3/2.2	
Permeability to Water Vapour	Class I
Permeability to CO ₂	CO ₂ sp > 50 m
Capillary absorption and permeability to water	W < 0,1 kg/m ² .h 0,5
Pull-off	With traffic load Crack closure or flexible Systems: a 1,5 N/mm ² (1,5 MPa)
Response to Fire	E
Dangerous Materials	Materials 5.3 appropriate

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