

KÖSTER® KB-Pox LF-VL

Epoxy based self leveling floor coating

Product Description:

Turkish product name > KÖSTER KB-Pox LF-VL

KÖSTER KB-Pox LF-VL is a epoxy based, 2 component, solvent free and low viscosity floor coating.

The materials self leveling properties make it easy to apply. In combination with suitable primers like KÖSTER KB-Pox LF-BM it is possible to create high quality flooring systems for cementitious substrates with a good visual optic and mechanical resistance.

KÖSTER KB-Pox LF-VL is suitable for self leveling and broadcast coating systems.



Standard Colors:

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:

Density (mixing) app. 1,52 g / cm³

Viscosity app. 1200 mPa.s (+ 23 °C)

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

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

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

Adherence 4,0 N / mm²

Substrate temperature min. + 10 °C

Compressive strength (7 days) EN 196-1 55 - 65 N / mm²

Tensile strength (7 days) EN 196-1 30 - 33 N / mm²

Mixing ratio 4 : 1 – A : B (by weigh)

Chemical Resistance:

Name of Chemical	Resistance
Motor oil	+
Hidrolic fluid	+
Pure water	+
Acetic acid % 10	+ (loss of shine)
Sulphuric acid % 10	+ (loss of shine)
Sulphuric acid % 30	+ (loss of shine and color)
Caustic soda % 20	+
Xylene	+ (15 days)
Solvent naphta	+
Javel water % 14	+

Petrol / super	+
Fruit juice (bottled)	+
Sugar solution	+

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

Characteristics:

- Tough hard
- Self-levelling
- 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, 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

- 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.

Application of Primer / Stratch Coat:

Depending on substrate conditions the surface must be prepared non-porous by applying a primer and / or scratch coat with 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 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.

Slowly add fillers to mixture.

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

Application of KÖSTER KB-Pox LF-VL

KÖSTER KB-Pox LF-VL can be applied pure or mixed with clean, dry, tempered quartz sand Ø 0.1 - 0.3 mm. The choice of the mixing ratio is depending on use.

Use a notched rake (rubber or metal) to apply KB-Pox LF-VL evenly with the same layer thickness. The fresh coating layer should be treated approx. 5 minutes after application with a spiked roller to achieve an optimal surface and ventilating. This is especially necessary when the coating has been filled with quartz sand.

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 LF-VL each mm thickness app. 1,50 kg / m²

KÖSTER LF-VL (% 50 sand filled) app. 1,80 kg / m²

Packaging:

KÖSTER KB-Pox LF-VL 15 kg SET

A component 12 kg

B component 3 kg



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 epoxy material.
- High levels of humidity might prevent proper curing of epoxy 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	
DOP NO: 047 EN 13813 KÖSTER KB-Pox LF-VL Epoxy based self leveling floor coating Flooring Screed Materials	
Abrasion Resistance	< 3000 mg
Response to Fire	Cfl

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