

KÖSTER

Waterproofing Systems

T 704 / 0411.ENG

KÖSTER® KB-Pur 223

Bitumen-PUR based, very elastic, liquid applied waterproofing product

Product Description:

Turkish product name > KÖSTER KB-Pur 223

KÖSTER KB-Pur 223 is a black coloured, 2 component, bitumen-polyurethane based, solvent containing waterproofing product which is liquid applied.

After mixing the material is very easy to apply with brush, roller or suitable airless spray equipment and is ideal for seamless and economic waterproofing layers.

After application the material cures to form a crack bridging and highly elastic membrane with more than 1500% elongation and a service temperature ranging from -30°C to +80°C.

KÖSTER KB-Pur 223 has high adhesion strength to concrete, masonry, plaster, mortar and many similar building products.



Applications:

Seamless water proofing coating on terraces, balconies and wet rooms (below screed or tile), basement tanking and curtain walls, underground garages-shelters, prefabricated concrete parts etc.

Can be applied on concrete, brickwork, OSB and fiber cement boards, plaster, masonry, mortar, mosaic, metal and similar surfaces. A suitable primer should always be selected.

Technical Data:

Tensile strength (7 days) DIN 53 504	> 3,5 N / mm ²
Break extension (7 days) DIN 53 504	> % 1500
Solid content	% 85-90
Application temperature	+5°C to +30°C
Pot life	60-90 min
Drying time (+23°C, % 50 moisture)	12 – 24 hour
Fully cured in	4 – 7 days
Service temperature	-30°C to +80°C
Shore A hardness	45-50

Advantages:

- Very easy to apply – brush, roller, spray
- Very economic waterproofing layer
- Highly elastic and crack bridging
- Excellent adhesion to many different building materials

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. Do not apply on surfaces where rising moisture is expected or

KÖSTER

Waterproofing Systems

T 704 / 0411.ENG

take necessary precautions. On fresh concrete surfaces wait at least 4 weeks before application (moisture content must be below 4% and adhesion must be more than 1,5 N/mm²).

Preparation of Material:

Condition material to room temperature.

Premix (B) bitumen component for a short period. Add (A) prepolymer component and mix for apr.3 minutes (avoid air entrainment).

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

After mixing let the mixture sit for apr.1 minute to allow air bubbles to escape.

Do not thin with water, thinner or solvent !

Do not add any fillers !

Application Procedure:

The substrate and the uncured membrane must be at least 3°C above the dew point to reduce the risk of condensation.

Primer – On concrete, mortar, OSB or fiber cement board substrates use KÖSTER KB-Pox 002 or KÖSTER KB-Pox 008 epoxy primer (consumption apr. 0,20–0,40 kg/m²).

Cracks and floor-wall junctions – After primer has dried for 8-24 hours, details like floor-wall junctions, pipe penetrations and cracks should be waterproofed with KÖSTER KB-Pur 223 together with KÖSTER Super Fleece non-woven tape. For detailed information consult TDS.



Subsequent Layers - Apply at least 2 (unthinned) layers (3 layers are better) by brush, roller or airless spray. Wait apr. 24

hours (not longer than 48 hours) between coats (wait until tack free).

Do not apply layers thicker than 0,5 mm in a single coat (solvent encapsulation may result in bubble formation).

Do not leave KB-Pur 223 open to UV radiation, the waterproofing layer must be protected from sunlight!

Under Screed: If you are using KÖSTER KB-Pur 223 as a waterproofing layer under a cement screed, use one layer of PE sheet (Apr. 0,15mm thick) as a separating layer.

Under Tiles: If you are using KÖSTER KB-Pur 223 as a waterproofing layer under ceramic tiles, sprinkle KÖSTER MO20 sand (Apr. 1kg/m²) into the last layer (while fresh) as a key coat for good adhesion between waterproofing layer and tile adhesive.

Under Gravel Ballast: If you are using KÖSTER KB-Pur 223 as a waterproofing layer on a terrace, use one layer of geotextile (Apr. 150-200 gram/m²) as a separating layer and use gravel as ballast (Apr. 5cm thick).

Consumption:

KÖSTER KB-Pur 223 (2 – 3 layers) 1,5 – 2,5 kg/m²

Packaging: A+B = 30 kg SET



Cleaning of Tools:

Clean material with a suitable with KÖSTER Thinner No.1 or suitable solvent while still wet. Cured material can only be removed mechanically.

Notes:

KÖSTER

Waterproofing Systems

T 704 / 0411.ENG

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

Do not apply on damp, 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 coating.

High levels of humidity might prevent proper curing of coating.

Storage:

Store in dry conditions and at room temperatures, in unopened original containers. Store (A) component in upside down position to prevent air and moisture ingress into bucket.

Shelf Life: 9 months.

Health and Safety:

Contains isocyanates and solvents. 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.



2184

KÖSTER YAPI KİMYASALLARI İNŞAAT SAN. Ve TİC. A.Ş. Kocaeli Gebze V GEBKİM Kimya İhtisas OSB, Atatürk Bulvarı No: 6 Dilovası 41455 KOCAELİ	
16	
2184– CPR – 0197 DOP NO: 055 EN 1504-2:2004 KÖSTER – KB-Pur 223 Bitüm-PUR esası, iki bileşenli, lıkit su yalıtımı ürünü Kaplama uygulaması (C)2.2 Bitüm-PUR esası, iki bileşenli, lıkit su yalıtımı ürünü	
Su buharı geçirgenliği (EN ISO 7783-1, EN ISO 7783-2)	Sınıf II
Kapiler su emme ve su geçirgenliği (EN 1062-3)	w <0,1 kg/m ² .h ^{0,5}
Çekip koparma deneyi yoluyla yapışma dayanımı (EN 1542)	Trafik yükü olmadan Çatık kapatma veya esnek sistemler ≥0,8 N/mm ² (0,5) ^b
Reaction To Fire (EN 13501-1) <i>Yanına Karşı Tepki</i>	E
Dangerous Substances <i>Tehlikeli Maddeler</i>	In accordance with article 5.3 Madde 5.3'e uygun

Legal Notes : This guide has been issued to provide details regarding the use and application of our products, which can be used in very wide and various areas and to demonstrate the general technical details. This information reflects the knowledge and expertise of our company and is of recommendation nature. Especially, the details regarding implementation and final use are provided with good will to cover the storage, handling and application of our products under normal and recommended conditions. Products, application surfaces, areas and application conditions vary in practice. Therefore, it is of utmost importance to make sure you are applying the right product, at the right conditions and places. Since KÖSTER cannot check how its products are used, it does not accept any responsibility regarding the results of the application and does not provide any guarantees. Information provided here or written/verbal information provided by KÖSTER employees should solely be considered as recommendation. KÖSTER employees to visit the application area do not create any supervisor responsibilities on our part. The product users (user) should test the suitability of the product they are planning to use for the respective application and purpose. KÖSTER has the right to modify its products without announcement. Acceptance of all orders is based on our current sale and transportation terms and conditions. Users should always consider the final version of the local Technical Sheet of the respective product, which can be obtained by applying to KÖSTER. Product users should act cautious and observe and protect their own interests and property rights. They are even obliged to act in this manner. This guide only covers KÖSTER products and is not valid for products of other companies. Only the written announcements of our company are valid regarding matters that require technical support provided by us. This technical document is valid until a new version is printed and supersedes all previous versions.