

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



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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 approx. 3 minutes (avoid air entrainment).

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

After mixing let the mixture sit for approx. 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 approx. 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 approx. 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 (approx. 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 (approx. 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 (approx. 150–200 gram/m²) as a separating layer and use gravel as ballast (approx. 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 thinner with KÖSTER Thinner No.1 or suitable solvent while still wet. Cured material can only be removed mechanically.



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Notes:

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: 6 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.

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KÖSTER YAPI KİMYASALLARI İNŞ. SAN. ve TİC. A.Ş. GERKİM Kimya İhtisas OSB Ataölkü Bulvarı No: 6 41455 DİĞEVASI / KOCAELİ 18	
1020 - CPM - 940 051589 DDP NO: 055 Eti 1504-2 : 2004 KÖSTER KB-Pur 223 İkili (2K) Epoksi, 2 Komponentli Likit Su Yalıtıcı Kaplama uygulaması (C) 2.2	
Su Buharı Geçirgenliği	Sınıf II
Kapılar Su Emme ve Su Geçirgenliği	W < 0,1 kg/m².İk (0,5)
Çekilme Kuvveti	Sabit yük altında 2000 kg/cm² (200 MPa) kadar yüklenir.
Yangına Karşı Tepki	E
Tehlikeli Maddeler	Maddeler 5.3'e uygun

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