

T 704 / 0421

KÖSTER KB-Pur 214 FLEX

One component, polyurethane liquid waterproofing membrane

General Information:

KÖSTER KB-Pur 214 FLEX is a single component, low viscosity, moisture curing waterproofing product based on hydrophobic polyurethane. It cures with the atmopheric moisture to form a highly elastic membrane.

Brush, roll or spray application makes KÖSTER KB-Pur 214 FLEX very easy to apply and event the most difficult waterproofing details are solved permanently After curing KÖSTER KB-Pur 214 FLEX forms a very elastic, seamless and jointless waterproofing coating with up to 1.000% elongation and excellent adhesion to most types of substrates.

KÖSTER KB-Pur 214 FLEX has a maximum service temperature of $+80^{\circ}$ C and is resistant to cold down to -30° C.

KÖSTER KB-Pur 214 FLEX has excellent mechanical and chemical resistance and a low solvent content.



Technical Data:

Tensile Strength	<u>(7 days)</u>	DIN 53 504	<u>> 5,0 N / mm2</u>
Elongation	DIN	53 504	% 1000
Solid Content			% 90
Application temperature		DIN 53 504	+5C to +30C
Density	DIN	53217	1.40 g/cm ³

	4 – 7 days
(+23C, % 50 moisture)	12 – 24 hour
Service temperature	
Shore A hardness	

Fields of Application:

Waterprofing of roofs, balconies, terraces and verandas (under tiles and screed), external basement foundation walls, wet and damprooms like kitchen and bathrooms. Flashing of chimneys, vent pipes, walls, windows and doors, protection of polyurethane foam insulation.

Suitable Substrates: concrete, render, screed, repair mortar, masonry, gas concrete, wood-OSB boards, repair of old bitumen membranes, fiber-cement boards and various metal surfaces.

Note: Specific primer which is suitable for the application substrate should be selected !

Application Procedure:

Substrate Preperation:

The substrate has to be dry, sound and solid, free of cement laitance, paint, dust, form oil and other contaminants that might affect the bonding adversely. Suitable tools for surface preparation are wire brushes, high-pressure water jets, sand- and shotblasting. After surface preparation the substrate should be rough with a sandpaper-like texture and open pores.

Floor-wall junctions should be rounded with a fillet (radius=4cm) made from KÖSTER Repamor (cement-based repair mortar).

Movement joints should be waterproofed with KÖSTER Flex Band (dilatation tape) and KÖSTER KB-Fix (epoxy adhesive) or KÖSTER Fugenspachtel FS-H (polysulfide sealant).



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Cracks and surface honeycombs should be chiselled open. Cracks, honeycombs and depressions larger than 5 mm should be filled with KÖSTER Repamor (cement-based repair mortar) and be left for curing for at least 24 hours.

Visible cracks on concrete surfaces must be widened and repaired before application. After widening of the cracks, epoxy primer is applied and then repaired with KÖSTER KB-Pur 214 FLEX and KÖSTER Superfleece reinforcement tape (see technical data sheet of KÖSTER Superfleece for details).

Under all conditions the adhesion to concrete surfaces (pull-off strength) must above 1,5 N/mm^2 and moisture of the concrete must below 4%.

Primer Selection Chart :

1. KÖSTER KB-Pox 002 or KÖSTER KB-Pox 008 epoxy primer is used on substrates such as concrete, masonry, render, screed, repair mortar, wood, plywood, OSB board and fiber cement boards.

2. KÖSTER PVC Primer is used as a primer on substrates like PVC waterproofing membranes, PVC door and window profiles and PVC pipes.

3. KÖSTER Metal Primer is used as a primer on substrates like painted sheet metal and roofing panels.

Note: All primers should be tested for suitability on the jobsite before application !

Primer application on concrete substrate:

KÖSTER KB-Pox 002 or KÖSTER KB-Pox 008 should be used as a primer on concrete substrates and wood/OSB boards.

The primer should be applied with a brush or roller. Very absorbent concrete substrates should be primed twice.

The consumption for the primer coat is approx. $0.30 - 0.50 \text{ kg/m}^2$.

After the application of the primer wait 8-24 hours before applying the waterproofing material. Do not exceed 24 hours waiting time as this may decrease adhesion to the waterproofing material.

KÖSTER KB-Pur 214 FLEX application:

The material should be conditioned at room temperature for at least 24 hours.

Application is done in min. two coats with a brush, roller or suitable spray equipment.

Between layers wait for 8-24 hours and carefully clean first layer from dust, sand grains, water droplets or other contaminations that might affect the bonding of the second coat adversely.

Floor-wall junction fillets should be waterproofed with KÖSTER KB-Pur 214 FLEX embedded in a 20cm wide stripe of fibre mesh (80gr/m²) or KÖSTER Superfleece reinforcement tape.

The finished application should be protected from water and rain, outdoor weeather conditions and mechanical forces until the coat is dry.

Under Screed: If you are using KÖSTER KB-Pur 214 FLEX as waterproofing layer under a cement screed, use one layer of PE plastic foil (apr. 0,15 mm thickness) as a seperating layer.

Under Tile: If you are using KÖSTER KB-Pur 214 FLEX as waterproofing layer under ceramic tiles, sprinkle KÖSTER MO 20 sand (apr. 1,0 kg/m²) onto the last layer (while fresh) as a key coat for good adhesion to the tile adhesive.

Under Gravel: If you are using KÖSTER KB-Pur 214 FLEX as waterproofing layer on a terrace with thermal insulation boards (XPS) and a gravel topping use following layers; waterproofing layer + PE plastic foil + XPS boards + non-woven geotextile fabric (200 gr/m²) and final layer is gravel stones. It is advisable to put a drainage layer between the XPS boards and the geotextile fabric !

Consumption:

Total consumption two coats 1,50-2,0 kg/m²



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Packaging:

KÖSTER KB-Pur 214 FLEX





Cleaning of Tools:

Clean tools and equipment with KÖSTER Thinner No.1 while still fresh.

Storage and Shelf Life:

Shelf life is 6 months from the production date if stored in unopened and undamaged packages. Protect from humidity, water, freezing and direct heat sources and store at room temperature.

Production date, lot number and expiry date are printed on the packaging. Store pails upside down to prevent the ingress of moisture. Once pail is opened, use as soon as possible.

Safety Information:

Contains volatile flammable solvents ! Do not approach with open flame and do not smoke during application. Only work outdoors and in adequately ventilated areas, provide adequate ventilation in indoor areas and consider that long-term solvent odor may occur. Use gloves, goggles and protective clothing. In case of contact with skin, wash with soap and water. In case of contact with yes, rinse with plenty of water, seek medical advice immediately. Do not swallow, do not use empty packages to store foodstuffs and do not throw them into fire. For professional use only, keep out of reach of children.

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KÖSTER YAPI KİMYASALLARI GEBKİM Kimya İhtisas OSB Atatürk Bulvarı No:6 41455 DİLOVASI / KOCAELİ				
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1020 - CPR - 040 051989 / DOP NO: 064				
EN 1504-2				
KÖSTER KB-Pur 214 FLEX				
Gezilebilir Teraslar için Su Yalıtımı (Poliüretan Esaslı) Liquid Waterproofing for Walkable Terraces (Polyurethane Based)				
Kaplama Uygulaması / Coating Application 1.3/2.2/5.1				
Su buharı geçirgenliği / Determination of water-vapour transmission properties (EN ISO 7783-1, EN ISO 7783-2)	Sınıf I / Class I			
Karbondioksit geçirgenliği Determination of carbon dioxide permeability(EN 1062-6)	CO _{2 SD} > 50 m			
Kapiler su emme ve su geçirgenliği Determination of liquid water permeability (EN 1062-3)	W < 0,1 kg/m². h 0,5			
Aşınma Direnci / Determination of abrasion resistance (EN ISO 5470-1)	< 3000 mg			
Çarpmaya Direnç / Falling-weight test (EN ISO 6272-1)	Sınıf III / Class III			
Çekip koparma deneyi yoluyla yapışma dayanımı / Measurement of bond strength by pull-off (EN 1542)	Trafik yükü olmadan çatlak kapatma veya esnek sistemler Crack closure or flexible systems without traffic load > 0,8N/mm² (0,5)b			
Yangına karşı tepki / Reaction to fire (EN 13501- 1)	Ds1,d0			
Tehlikeli maddeler	Madde 5.3'e uygun			
Dangerous substances	In accordance with article 5.3			

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