

KÖSTER® KB-Pur 214

PUR based, one component liquid waterproofing membrane

Product Description:

Turkish product name > KÖSTER KB-Pur 214

KÖSTER KB-Pur 214 is a one part, polyurethane based, liquid applied waterproofing material. After application the material cures with air moisture to form a seamless, elastic, crack bridging and walkable membrane.

The cured membrane has high adhesion strength to concrete, masonry, plaster, mortar and many similar building products.

KÖSTER KB-Pur 214 is resistant to water contact, weather conditions, sunlight, abrasion (foot traffic) and thermal variations (-30 to +80 °C service temperature).



Applications:

Seamless water proofing coating on terraces, balconies and wet rooms, prefabricated concrete parts and channels etc. Suitable for use in foot traffic areas. Can be applied on concrete, brickwork, roof tiles, fiber cement boards, plaster, masonry, mortar, mosaic, metal and similar surfaces.

Technical Data:

Tensile strength (7 days) DIN 53 504	>4,0 N / mm ²
Break extension (7 days) DIN 53 504	> % 250
Solid content	% 90
Application temperature	+5°C to +30°C
Density	1,45 g/cm ³
Fully cured in	4 - 7 days
Drying time (+23°C, % 50 moisture)	12 - 24 hour
Service temperature	-30°C to +80°C
Shore A hardness	70-75

Advantages:

- One component – no complicated mixing jobs on site required
- Economic to use
- Easy to apply
- Long life expectancy
- 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, efflorence, 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. On fresh concrete surfaces wait at least 4 weeks before application. For concrete surfaces the minimum requirements are an open textured, absorbent surface with a pull off strength of min. 1.5 N/mm² and a concrete residual moisture of max. 4 % and minimum surface temperature > +8°C.

Preparation of Material:

Condition material to room temperature.

If needed premix before application (avoid air entrainment). Mixing should be done with low speed drill and mixing paddle.

Do not thin with water or solvent !



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 surfaces use KÖSTER KB-Pox 002 or KÖSTER KB-Pox 008 epoxy primer (consumption apr. 0,20–0,40 kg/m²). Allow the primer to cure for 8-24 hours after the application. Do not exceed 48 hours. In case of damp concrete (max. 6% residual moisture) we advise to use KÖSTER KB-Pox EXTRA as the primer.

On wood-OSB-cement board surfaces use KÖSTER KB-Pox 002 as a primer. Apply two coats. Thin the first coat with 10% KÖSTER Thinner No.1 and let the surface soak up the primer. After that apply a second unthinned layer of KÖSTER KB-Pox 002. Allow the primer to cure for 8-24 hours after application.

Cracks and Floor-Wall Junctions – Cracks and floor-wall junction details should be handled after the primer application but before the application of the main waterproofing layers. Apply one (1) unthinned layer of KÖSTER KB-Pur 214 and cover it with KÖSTER Super Fleece non-woven fabric while still wet. Roll the fabric into the wet surface and press it down with a roller or brush to ensure a bubble free application and good contact to the

application surface. Wait 2-4 hours and overcoat the fabric with a thin layer of unthinned KB-Pur 214. Leave the application to dry for 8-24 hours before you continue with the application of the main waterproofing layers.

Waterproofing 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).

UV Topcoat (optional) – KÖSTER KB-Pur 214 may change its color in time due to UV radiation. If you need a color stable surface you can apply one (1) thin topcoat of KÖSTER KB-Pur 215. Consumption is apr. 0,25kg/m².

Consumption:

KÖSTER KB-Pur 214 (2 – 3 layers) 1,0 – 1,50 kg/m²

Packaging:

5kg and 25kg pail



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:

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, at room temperatures and in unopened original containers.

Shelf Life: 6 months.

Health and Safety:

Contains isocyanates. 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: 008 EN 1504-2 KÖSTER KB-Pur 214 PUR based, one component liquid membrane (for walkable terraces) Coating application (C) 1.3/2.2/5.1	
Carbon dioxide permeability	CO ₂ 50 > 50 m
Capillary absorption and permeability to water	W < 0,1 kg/m ² .h 0,5
Abrasion Resistance	< 3000 mg
Resistance to Impact	Class I
Breakout Through Out The Experiment Adhesion Strength	Crack closure or flexible systems without traffic load $\geq 0,8N/mm^2$ (0,5) ²
Response to Fire (EN 13501-1)	D-s1,d0
Dangerous Materials	Materials 5.3 appropriate

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