

## KÖSTER® KB-Pur 215

### Aliphatic PUR based, 1C liquid waterproofing membrane

#### **Product Description:**

Turkish product name > KÖSTER KB-Pur 215

KÖSTER KB-Pur 215 is a one part, aliphatic polyurethane based, liquid applied water proofing material. It can be used alone as a waterproofing material or as a UV topcoat in combination with other KÖSTER PUR waterproofing materials.

Due to its aliphatic polyurethane chemistry the cured membrane has very high UV resistance and elasticity.

KÖSTER KB-Pur 215 is one component and cures with air moisture to form a seamless, elastic, crack bridging and abrasion resistant coating.

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

KÖSTER KB-Pur 215 is resistant to water contact, weather conditions, UV sunlight, abrasion (foot traffic) and thermal variations (-40 to +80 °C service temperature).



#### **Applications:**

Seamless water proofing coating on terraces, balconies 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, heat insulation PUR foam and similar surfaces.

As a UV topcoat on KÖSTER KB-Pur 214 and KÖSTER KB-Pur 560.

#### **Technical Data:**

Color	grey
Viskozite	app. 5000 mPa.s
Tensile strength	DIN 52455 5,5-6,0 N / mm <sup>2</sup>
Elongation at break (+20°C)	DIN 52455 % 325
Water vapor permeability	0,78-0,84 g/m <sup>2</sup> .hour
Application temperature	+5°C to +30°C
Density	1,35-1,40 g/cm <sup>3</sup>
Hardening time	(+23°C, % 50 moisture) 12 - 24 h
Service temperature	-40°C to +80°C
Shore A hardness	80
Shore D hardness	35

#### **Advantages:**

- Very durable, high resistance to UV
- Tough elastic
- Easy to apply – one component, ready 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, 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. 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/mm<sup>2</sup> and a

concrete residual moisture of max. 4 % and minimum surface temperature  $> +8^{\circ}\text{C}$ .

### **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, if need you can thin the material with % 5-10 KÖSTER Thinner No.1 for spray application (do not overthin, may result in curing problems).

### **Application Procedure:**

The substrate and the uncured membrane must be at least  $+3^{\circ}\text{C}$  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.  $0,20-0,40 \text{ kg/m}^2$ ). 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 215 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 215. Leave the application to dry for 8-24 hours before 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).

### **Application Procedure (UV topcoat):**

KÖSTER KB-Pur 215 can also be used as a UV topcoat on other polyurethane-polyurea based waterproofing layers (KÖSTER KB-Pur 560, KÖSTER KB-Pur 214).

In this case apply 1 coat onto the cured waterproofing layer. Consumption is apr.  $0,25\text{kg/m}^2$ .

### **Consumption:**

AS A WATERPROOFING LAYER :

2 – 3 layers total apr.  $1,50 \text{ kg/m}^2$

AS A UV TOPCOAT :

1 – 2 layers total apr.  $0,2 - 0,40 \text{ kg/m}^2$

### **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  $+5^{\circ}\text{C}$  or if temperatures below  $+5^{\circ}\text{C}$  are expected within 24 hours.



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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.

**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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