

# KÖSTER® KB-Pur 560

## Polyurea Spray Elastomer

### **Product Description:**

Turkish product name > KÖSTER KB-Pur 560

KÖSTER KB-Pur 560 is a two part, 100% solids polyurea based and spray applied water proofing material. After application the material cures within 5-15 seconds to form a seamless, elastic, crack bridging and durable waterproofing membrane.

The cured membrane has excellent physical properties such as chemical, impact, cold, abrasion, heat and water resistance and durability.



### **Advantages:**

- 100 percent solids, no solvents
- Easy and fast to apply
- Long life expectancy
- Highly elastic and crack bridging
- Excellent adhesion

### **Applications:**

Seamless water proofing coating on terraces, buried concrete structures-concrete pipes-channels, foundations etc.

### **Color:**

RAL 7032, RAL 7040 standard color.

Note: Different RAL colors are available upon request.

### **Technical Data:**

Mixing ration	A:B (volumetric)	1 : 1
Density	ISO	app. 1,10-1,12 g / cm <sup>3</sup>
Density	RESIN	app. 0,99-1,0 g / cm <sup>3</sup>
Viscosity	Resin component	1000 mPa.s
Viscosity	ISO component	1200 mPa.s
Shore A hardness	DIN 53505	85-90
Shore D hardness		35-40
Elongation at break	DIN 53504	app. % 500
Tear resistance	ASTM D 624	35-40 kN / m
Tensile strength	ASTM D 614	13-14 MPa
% 100 Modulus	ASTM D 614	5 MPa
% 300 Modulus	ASTM D 614	9 MPa
Taber abrasion resistance	(H22/1000gr/1000rev)	152mg
Abrasion resistance	DIN 53516	150 mm <sup>3</sup>

### **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.

#### **Primer for CONCRETE SUBSTRATE:**

On concrete substrates KÖSTER KB-Pox 002 epoxy primer should be used as a primer. Very absorbent concrete surfaces should be primed twice.

KÖSTER KB-Pox 002 should be conditioned to room temperature before application.

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A and B parts are premixed before application (avoid air entrainment). Mixing should be done with low speed drill and mixing paddle. After premix, add part B to part A and slowly mix for apr. 3 minutes. Transfer the mixed material to a clean container (do not scrape the walls and bottom of the first container) and remix for 30 seconds.

Apply immediately to prevent exothermic heating of the mixed material. Application should be done with a squeegee and should be rolled back with a flint free epoxy roller.

The primer should cure for 12-24 hours (not longer than 24 hours – otherwise adhesion to primer might be poor) before application of KÖSTER KB-Pur 560 starts.

#### **Application of KÖSTER KB-Pur 560:**

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

Application must be done with a special plural component spray machine (like Graco H-XP2 or similar).

The application machine should be equipped with recirculation lines from the spray machine to the drums and the drums should be heated to apr.+40°C under recirculation before of application.

Preheater and hose temperature should be 75-80°C. Spray pressure should be adjusted to 2.500 psi.

The amine/polyol (RESIN) component should be thoroughly mixed before application and during application.

Avoid the use of undried air in the spray process as this may contaminate the product with moisture.

DO NOT SEAL DRUMS THAT MIGHT BE CONTAMINATED WITH MOISTURE – CO<sub>2</sub> PRESSURE MIGHT DEVELOPE DUE TO REACTION OF MATERIAL AND MOISTURE !

Do not mix or thin KÖSTER KB-Pur 560 with fillers, pigments or solvents, this may adversely effect product performance.

It is recommended that KÖSTER KB-Pur 560 is sprayed in multidirectional passes to insure uniform thickness of at least 2mm.

Recoatibility without primer is apr. 12-24 hours. Note that hot temperatures may shorten this period.

Application should only be done by skilled professionals, during the application high pressure and high heat situations are present around the machine and all the hoses.

**Subsequent layers** – KÖSTER KB-Pur 560 is an aromatic polyurea, therefore as with all aromatic polyureas over a period of time color change and superficial oxidation at the surface will occur.

Aliphatic PUR or other suitable top coats should be used where long-term aesthetics are of importance.

We offer following aliphatic PUR top coats ;

KÖSTER KB-Pur 750 (aliphatic PUR 1K – RAL colors) : Should be used for applications which are subject to permanent or prolonged contact with water – or – high abrasion.

KÖSTER KB-Pur 215 (aliphatic PUR 1K – color:grey) : Should be used for applications which are subject to UV rays only.

#### **Consumption:**

KÖSTER KB-Pur 560 for 1 mm thickness 1,1 kg/m<sup>2</sup>

Application should be made with minimum 2mm thickness.

#### **Packaging:**

KÖSTER KB-Pur 560 425 kg SET

RESIN component 200 kg drum (app. 200 lt)

ISO component 225 kg drum (app. 200 lt)



## **Cleaning of Tools:**

Clean gun with DMF immediately after application. Cured material can only be removed mechanically.

## **Notes:**

Do not apply on damp, wet or frozen surfaces.

Do not apply on dusting or weak surfaces. If in doubt, perform adhesion test.

High levels of humidity might prevent proper curing of coating. Do not apply if humidity is above 85%. Do not apply on concrete which is fresher than 3-4 weeks.

## **Storage:**

Store in dry conditions and at room temperatures, in sealed original containers.

## **Shelf life:**

6 months (in sealed unopened drums)

## **Health and Safety:**

ISO component 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.

For additional references to safety-hazard warnings, regulations regarding the transport and waste management please refer to the relevant Material Safety Data Sheet.

FOR PROFESSIONAL USE ONLY !

## **Determination of dew point table:**

Ambient temperature (°C)	Relative Humidity								
	50%	55%	60%	65%	70%	75%	80%	85%	90%
6	-3,2	-2,1	-1,0	-0,1	0,9	1,8	2,8	3,7	4,5
8	-1,6	-0,4	0,8	1,8	2,8	3,8	4,7	5,6	6,5
10	0,1	1,3	2,6	3,7	4,7	5,6	6,7	7,6	8,4
11	1,0	2,3	3,5	4,6	5,6	6,6	7,6	8,6	9,4
12	1,9	3,2	4,5	5,6	6,6	7,6	8,6	9,6	10,4
13	2,8	4,2	5,4	6,6	7,6	8,6	9,6	10,6	11,4
14	3,7	5,1	6,4	7,5	8,6	9,6	10,6	11,5	12,4
15	4,7	6,1	7,3	8,5	9,5	10,6	11,5	12,5	13,4
16	5,6	7,0	8,3	9,5	10,5	11,6	12,5	13,5	14,4
17	6,5	7,9	9,2	10,4	11,5	12,5	13,5	14,5	15,3
18	7,4	8,8	10,2	11,4	12,4	13,5	14,5	15,4	16,3
19	8,3	9,7	11,1	12,3	13,4	14,5	15,5	16,4	17,3
20	9,3	10,7	12,0	13,3	14,4	15,4	16,4	17,4	18,3
21	10,2	11,6	12,9	14,2	15,3	16,4	17,4	18,4	19,3
22	11,1	12,5	13,8	15,2	16,3	17,4	18,4	19,4	20,3
23	12,0	13,5	14,8	16,1	17,2	18,4	19,4	20,3	21,3
24	12,9	14,4	15,7	17,0	18,2	19,3	20,3	21,3	22,3
25	13,8	15,2	16,6	17,9	19,1	20,2	21,3	22,3	23,3
26	14,8	16,2	17,6	18,9	20,1	21,2	22,3	23,3	24,2
28	16,6	18,1	19,5	20,8	22,0	23,2	24,2	25,2	26,2
30	18,4	20	21,4	22,7	23,9	25,1	26,2	27,2	28,2

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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: 010 EN 1504-2 KÖSTER KB-Pur 560 Polyurea Spray Elastomer Coating application (C) 2.2/5.1	
Permeability to water vapour	Class I
Capillary absorption and permeability to water	W < 0,1 kg/m <sup>2</sup> h 0,5
Abrasion Resistance	< 3000 mg
Resistance to Impact	Class III
Breakout Through Out the Experiment Adhesion Strength	Crack closure or flexible systems without traffic load = 0,8 N/mm <sup>2</sup> (0,5 lb)
Response to Fire (EN 13501-1)	E
Dangerous Materials	Materials 5.3 appropriate

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