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## PRODUCT DATA SHEET



EN 1504-2

## BT2K PU ELAST

Bitümen-Polyurethane Based Two Component Waterproofing Material

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<b>PRODUCT DESCRIPTION</b>	It is a bitümen-polyurethane based, two component, fast curing, permanent and highly flexible, cold applied waterproofing material.			
<b>PRODUCT USAGE</b>	In underground applications such as foundations, curtain walls and basements, as a water and moisture proofing material, as a protection and waterproofing material for building and building elements exposed to leakage water, temporary and continuous water pressure, Terrace, balcony, roof, kitchen, bathroom, etc. As a waterproofing material in dry or slightly damp details, Insulation of mineral surfaces such as concrete, stone, brick, briquette, plaster, screed, in insulation applications that need to withstand higher pressure water with 100 gr/m <sup>2</sup> polyester felt, in large areas and in different material transitions, Water It is used on gypsum and cement based panels, old asphalt and EPDM membranes in tanks (excluding drinking water tanks) and water channels.			
<b>PRODUCT SPECIFICATION</b>	<p><b>SURFACE PREPARATION:</b> The application surface should be cleaned of dust, dirt, rust and oil, loose parts should be scraped. The spikes and corners should be rounded. The concrete surface on which the application will be made is of C25 concrete class and above, has a positive effect on the performance of the insulation to be made. Iron and wooden wedges on the surface should be removed and active water leaks and gaps, if any, should be repaired with appropriate repair materials. At least 5 cm diameter chamfer (cement-based) should be made on the corners and edges. Corrupted and eyelet-hole surfaces should be smoothed and covered by scraping the surface with the help of a trowel with the mortar to be made by adding silica sand to the primer material. Defects larger than 5 mm and rod holes in shear walls should be repaired by filling with appropriate repair mortars. If there is water, water vapor and salt specks on the negative side, application should not be made on that surface. Roughening should be done to increase adherence on extremely impermeable (high strength class) concrete and shear walls. Dilatation joints should not be closed and the insulation material should be fully bonded to the dilatation material. Maximum surface moisture content should not exceed 4%. Application should be avoided in humid and/or hot weather. It should not be applied on surfaces that are frozen, melting or there is a risk of rain or frost within 24 hours.</p> <p><b>UNDERCOAT:</b> Ambient temperature: +8°C / +35°C ,Applied surface temperature: +8°C / +30°C. Surface moisture content up to 5% BTMSEAL AA 0106, Surface moisture content up to 8% BTMSEAL E2K NB should be used. Before the primer application, adhesion test should be done with the primer material. For different surfaces, please contact our technical unit.</p> <p><b>APPLICATION:</b> Ambient temperature: +5°C / +35°C, Application surface temperature: +5°C / +30°C,Application tools: Brush, Roller, Airless Spray machine Mixing ratio (by weight): A:B = 1:1 Component A is slowly added to component B and mixed with a 400-600 rpm mixer for 3-5 minutes. It is mixed until a homogeneous mixture is obtained, the mixed material should be consumed during the life of the pot. The material is applied with a roller, airless spray machine or brush to obtain a film thickness of at least 1.5-2 mm. BT2K PU Elast should be applied within 12 hours after the primer application. If more than 18 hours have passed after the primer application, the primer layer should be sanded. It is recommended to apply 1.5mm-2mm as a single layer in terms of the performance of the insulation. Opened packages should be consumed. For detailed information, 2.2 kg/m<sup>2</sup> to obtain a dry film thickness of approximately 2mm on smooth/smooth surfaces.</p>			
<b>CONSUMPTION</b>	performance of the insulation. Opened packages should be consumed. For detailed information, 2.2 kg/m <sup>2</sup> to obtain a dry film thickness of approximately 2mm on smooth/smooth surfaces.			
<b>PACKAGING</b>	A COMPONENT: 15 KG B COMPONENT: 15 KG			
<b>TEST</b>	<b>METOD</b>	<b>UNIT</b>	<b>TOLERANCE</b>	<b>RESULT</b>
Base	-	-	-	Polyurethane
Colour	-	-	-	Black
Density	EN ISO 2811-1	g/ml	±0,02	1
Solid Content	TS 6035&EN ISO 3251	%	±2	85
Viscosity	TS 5833&EN ISO 3219	c P	±800	3500
Tensile Strength	ASTM D 412& EN ISO 527-3	N/mm <sup>2</sup>	±0,04	≥ 3 N/mm <sup>2</sup>
Elongation	ASTM D 412& EN ISO 527-3	%	-	2000
Fire Class	EN 13501-1	-	-	E
Water vapour Transmission Properties ( SD)	EN ISO 7783	m	SD<5	CLASS I
Carbondioxide permeability	EN 1062-6	m	SD>50	CO <sub>2</sub> SD> 50m
Measurements of bond strength by pull-off	EN 1542	N/mm <sup>2</sup>	≥ 0,8	Crack closure or Flexible systems without traffic load
Liquid-water transmission rate (permeability)	EN 1062-3	kg/m <sup>2</sup> .h <sup>0.5</sup>	≤0,1	w<0,1
Shore A	ASTM D 2240& EN ISO 868	Shore A	±5	30
Time Required for Exact Use (23 °C)	-	gün	±3	7
Pot Life (23 °C)	-	dk	±5	40
Application Temperature	-	°C	±5	10-30
<b>Dangerous materials</b>	in accordance with clause 5.4			
NPD = (No performance defined)				
* For information and advice on the safe handling storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet				
The manufacturer serves the right to modify, at any time, the characteristics of its products				

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