

**Produktdeklaration - DGNB Neubauversion Büro- und Verwaltungsgebäude (NBV15)**
**MANUFACTURER** KÖSTER BAUCHEMIE AG AURICH

**PRODUCT NAME** KÖSTER TPO

**Product Rating DGNB Criteria**






- The product meets the requirements of quality level 1 to 4 and contributes to achieve 100 (of max. 100 achievable) checklist points according to criterion 'ENV1.2 Local Environmental Impact'.
- The product has a product-specific Environmental Product Declaration (EPD), which can be used for the life cycle assessment according to criteria 'ENV 1.1' and 'ENV2.1'.

**Criterion ENV 1.2 Risks for the Local Environment - Ecological Quality**
**Quality Level 1** 10 Checklist Points 
**Quality Level 2** 50 Checklist Points 
**Quality Level 3** 75 Checklist Points 
**Quality Level 4** 100 Checklist Point 
**Criterion ENV 1.3.1 Sustainable Resources - Ecological Quality\***
**Quality Level 1** 10 Checklist Points 
**Quality Level 2** 50 Checklist Points 
**Quality Level 3** 100 Checklist Points 

\* This criterion is only applicable to wooden materials.

**Product Characteristics**

KÖSTER TPO Membranes are made of flexible polyolefin. A glass fiber mesh is embedded in the middle of the membrane to provide an especially high dimensional stability and resistance against perforation. It offers a high reliability and is characterized by a fast and economical installation. KÖSTER TPO Membranes are UV-stable, resistant to aging, microorganisms, and can be applied directly onto old bitumen membranes.

-  **Credit requirements fulfilled - the action level is achieved**
-  **Credit is not applicable to this product**
-  **X% of the product comply with the credit requirement**
-  **Required data not specified - for required data contact manufacturer**
-  **Credit requirements are not fulfilled**

**About DGNB Products - [www.dgnb.de](http://www.dgnb.de)**

This declaration helps to assess products easily according the certification system DGNB® Neubauversion Büro- und Verwaltungsgebäude (NBV15). Products are not reviewed or certified by DGNB. DGNB credit requirements cover the performance of materials in aggregate, not the performance of individual products or brands. Therefore the project team or the manufacturer is responsible to declare the compliance with the project requirements to achieve DGNB points.

Above you find an explanation of the symbols. Detailed information are on the next pages.

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**Product assessment of complete system**

Topic	Number	Criteria	Relevance	Evaluation
Environmental Quality (ENV)	ENV1.1	Life cycle Assessment - Emissions	✓	A product-specific Environmental Product Declaration (EPD) exists for this product.
	ENV1.2	Local environmental impact	✓	Quality Level 4 is fulfilled
	ENV1.3.1	Responsible procurement (Wood)		
	ENV1.3.3	Responsible procurement (Natural Stone)		
	ENV2.1	Life cycle Assessment - Primary Energy	✓	A product-specific Environmental Product Declaration (EPD) exists for this product.
	ENV2.2	Potable water demand and wastewater volume		
	ENV2.3	Land Use		
Economic Quality (ECO)	ECO1.1	Building-related life-cycle costs		
	ECO2.1	Suitability for conversion		
	ECO2.2	Marketability		
Sociocultural and Functional Quality (SOC)	SOC1.1	Thermal Comfort		
	SOC1.2	Indoor Air Quality		
	SOC1.3	Acoustic Comfort		
	SOC1.4	Visual Comfort		
	SOC1.5	Occupant control		
	SOC1.6	Quality of stay outdoor / indoor		
	SOC1.7	Safety		
	SOC2.1	Access for all		
	SOC2.2	Public access		
	TEC1.2	Noise protection		
	TEC1.3	Building envelope quality		
	TEC1.4	Adaptability of Technical Systems		
	TEC1.5	Ease of cleaning and maintenance		
	TEC1.6	Ease of dismantling and recycling		
	TEC3.1	mobility infrastructure		
Process Quality (PRO)	PRO1.1	Project preparation and planning		
	PRO1.3	Conceptual design and optimization in the planning		
	PRO1.4	Sustainability aspects in tender phase		
	PRO1.5	Documentation for Facility Management		
	PRO1.6	Design and urban quality		
	PRO2.1	Environmental impact of construction		
	PRO2.2	Construction quality assurance		
	PRO2.3	Systematic commissioning		
Site Quality (SITE)	SITE1.1	Site location risks		
	SITE1.2	Public image and social conditions		
	SITE1.3	Access to transportation		
	SITE1.4	Access to specific-use facilities		

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**Product assessment for criteria ENV1.2 - Local environmental impact**

The product fulfills the requirements for Quality Level 1-4

 Assessment: **Quality Level 4**
**Goals and Relevance**

Certain materials, construction products and preparations are a risk for soil, air, groundwater and surface water as well as for human's health, flora and fauna. In order to minimize risks for humans and the local environment, materials, (construction) products and preparations need to be reduced ,avoided or substituted, which due to their material properties or ingredients are a risk for surface and ground water, soil or air. Especially those materials, (construction) products and preparations must be reduced ,avoided or replaced, which affect human health, flora and fauna or harm within a short-, medium / or long-term period . This affects the entire life cycle - from production, processing at site, use of (building) inventory and disposal (dismantling, recycling, landfilling). These local risks are assessed material and product related. Hence eco-and human toxicological impact categories of LCA can not be applied due to lack of evaluation and measurement procedures.

**Product Assessment**

Relevant Products		Requirements of Quality Levels		Assessment of Product	Evaluation
36	Plastic sheeting on the roof and foundation  Subject: plastic sheeting to seal the roof and exterior walls of the basement	Quality Level 1	Presence of lead and Tin <0.1%	The content of lead and tin is < 0.1%	<b>Quality Level 4</b>
	Quality Level 2	Presence of lead and Tin <0.1%			
	Quality Level 3	Presence of lead and Tin <0.1%			
	Quality Level 4	Presence of lead and Tin <0.1%			

Relevant Products		Requirements of Quality Levels		Assessment of Product	Evaluation
44	Plastic materials  Subject: external wall and roof insulation, wall coverings, window, electrical cables: plastic sheets, wall coverings, wallpaper, plastic windows, cable sheathing	Quality Level 1	No requirements	The SVHC-content of the product is < 0.1 %.	<b>Quality Level 4</b>
	Quality Level 2	No requirements			
	Quality Level 3	SVHC < 0,1 %			
	Quality Level 4	SVHC < 0,1 %			

**Other remarks on classification**

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<b>MANUFACTURER</b>	KÖSTER BAUCHEMIE AG AURICH
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<b>PRODUCT NAME</b>	KÖSTER TPO
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The product contains the following components:

**Mass per  
unit [%]**

K1 KÖSTER TPO
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100%
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