

**Produktdeklaration - DGNB Neubauversion Büro- und Verwaltungsgebäude (NBV12)**
**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 does not lead to toxic or corrosive fumes in case of fire. Hence this product contributes to achieve 20 (of max. 20 achievable) checklist points according to criterion 'SOC 1.7 Safety and Security'.
- 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.

**Criterion SOC 1.7 Safety and Security - Prevention from risks of fumes**
**Indikator 2.3** 20 Checklist Points 
**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 (NBV12). 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)		
	ENV1.3.2	Responsible procurement (Formwork)		
	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 outdoor spaces		
	SOC1.7	Safety and security	✓	The product does not lead to toxic or corrosive fumes in case of fire
	SOC2.1	Access for all		
	SOC2.2	Public access		
	SOC2.3	Cyclist facilities		
	SOC3.1	Design and urban quality		
	SOC3.2	Integration of public art		
	SOC3.3	Floor Plan Qualities		
	Technical Quality (TEC)	TEC1.1	Fire prevention	
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		
TEC1.7		Sound immission control		
Process Quality (PRO)	PRO1.1	Comprehensive project brief		
	PRO1.2	Integral design		
	PRO1.3	Design concept		
	PRO1.4	Sustainability aspects in tender phase		
	PRO1.5	Documentation for Facility Management		
	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
There are no requirements for the product.			

**Other remarks on classification**

The product is not covered by DGNB NBV12 requirements. The product helps to achieve quality level 4.

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**Product assessment for criteria SOC1.7 - Safety and Security**

The product fulfills the requirements for prevention of fumes.

 Assessment: **20 of 20**  
**Checklist Points**
**Goals and Relevance**

A high sense of security contributes fundamentally to the comfort of human being. The goal is to avoid dangerous situations as much as possible and to reduce the impact of a non-preventable damage, as far as possible. The criterion safety and security assesses also the performance of products in case of fire.

**Product Assessment**

	Relevant Requirements	Requirements of Quality Levels	Assesment of Product	Evaluation
2.3	Prevention from risks of fumes	20 Checklist Points The product does not lead to toxic or corrosive fumes in case of fire	The product does not lead to toxic or corrosive fumes in case of fire.	<b>20 Checklist Points</b>

**Other remarks on classification**

## Produktdeklaration - DGNB Neubauversion Büro- und Verwaltungsgebäude (NBV12)

<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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