

Product Declaration - LEED® 2009 New Construction And Major Renovations NC & CS
MANUFACTURER KÖSTER BAUCHEMIE AG AURICH

PRODUCT NAME KÖSTER TPO

Product Rating

The product is not applicable to any LEED credits.

Indoor Environmental Quality (IEQ) - LEED Category

 IEQ Credit 4.1: Low Emitting Materials: **Adhesives and Sealants** 1 Point

 IEQ Credit 4.2: Low Emitting Materials: **Paints and Coatings** 1 Point

 IEQ Credit 4.3: Low Emitting Materials: **Flooring Systems** 1 Point

 IEQ Credit 4.4: Low Emitting Materials: **Composite Wood and Agrifiber Products** 1 Point
Materials and Resources (MR) - LEED Category

 MR Credit 4: **Recycled Content** 1-2 Points

 MR Credit 5: **Regional Materials** 1-2 Points See Location

 MR Credit 6: **Rapidly Renewable Materials** 1 Point

 MR Credit 7: **Certified Wood** 1 Point
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 credit point can be achieved**
- Credit is not applicable to this product**
- 22% X% of the product comply with the credit requirement**
- Required data not specified - for required data contact manufacturer**
- Credit requirements are not fulfilled**

About LEED & Products - www.usgbc.org

This declaration helps to assess products easily according the certification system LEED® 2009 New Construction and Major Renovations NC & CS (excluded SCHOOLS). Products are not reviewed or certified by LEED. LEED credit requirements cover the performance of materials in aggregate, not the performance of individual products or brands. For more information about LEED visit www.usgbc.org/leed. The project team or the manufacturer is responsible to declare the compliance with the project requirements to achieve LEED points.

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

Product Declaration - LEED® 2009 New Construction And Major Renovations NC & CS

MANUFACTURER KÖSTER BAUCHEMIE AG AURICH

PRODUCT NAME KÖSTER TPO

No	Product Name	Manufacturer	Mass per unit* [%]	VOC in g/l	VOC Limit in g/l	Flooring Systems	Composite Agrifiber product	Recycled Content		Regional Materials		Rapidly Renewable Material	Certified Wood
								Post-Consumer	Pre-Consumer	Location Harvesting/ Extraction	Location Manufacturing		
A1	KÖSTER TPO	KÖSTER BAUCHEMIE AG AURICH	~100%	N/A	N/A	N/A	N/A	Not specified	Not specified	Not specified	(D) Aurich	N/A	N/A
A2													
A3													
A4													
A5													
A6													
A7													
A8													
A9													
A10													
		KÖSTER BAUCHEMIE AG AURICH	100,0					—	—	If the location of 'Harvesting & Extraction' and 'Manufacturing' is within a radius of 500 miles of the project the subproduct contributes to the credit.			

* All values are based on the unit: **LEED default recycled content for steel

Notice: This declaration is a product of HOINKA GmbH. This data sheet is published in the online database greenbuildingproducts.eu. The data sheet is only valid as LEED evidence in conjunction with the manufacturer's declarations and product certificates that prove the information given in this declaration. This declaration is no official certificate in terms of LEED. The contents are based on manufacturer specifications. In spite of a diligent treatment of all information HOINKA GmbH cannot guarantee the actuality or correctness of the published data. The interpretation of the LEED criteria requirements can differ and depend on the project and the scope of application. In spite of a diligent treatment of all information HOINKA GmbH cannot guarantee the correctness of evaluation in terms of the LEED requirements. The user of this declaration, the consumer of the product and the consultant/planner, who is advising this product in any construction projects, is responsible by himself to proof all data published in this document and to verify the permissibility for the designated application. The content of this data sheet does not manifest any legal relationship. With the publication of a new edition, this declaration can no longer be considered to be valid. The latest version is available in the internet. HOINKA GmbH • greenbuildingproducts.eu • Lembergweg 7/1 • 71067 Sindelfingen • Tel. +49 7031 7659-441 • Fax +49 7031 7659-443 • www.greenbuildingproducts.eu • contact@greenbuildingproducts.eu • Geschäftsführer: Dipl.-Ing. Thomas Hoinka

Product Declaration - LEED® 2009 New Construction And Major Renovations NC & CS
MANUFACTURER KÖSTER BAUCHEMIE AG AURICH

PRODUCT NAME KÖSTER TPO

IEQ Credit 4.1: Low Emitting Materials: Adhesives and Sealants (1 Point)
Intent

Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants caused by adhesives and sealants applied on site.

Requirement

All adhesive, sealants and sealant primers used on the interior of the building (defined as inside of the weatherproofing system and applied on-site) must comply shall comply with the VOC content limits of the following:

- SCAQMD Rule #1168 (effective date of July 1, 2005 and rule amendment date of January 7, 2005),
- Aerosol Adhesives must comply with Green Seal Standard for Commercial Adhesives GS-36 requirements in effect on October 19, 2000.

IEQ Credit 4.2: Low Emitting Materials: Paints and Coatings (1 Point)
Intent


Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants caused by paints and coatings applied on site.

Requirement

Paints and coatings used on the interior of the building (defined as inside of the weatherproofing system and applied on-site) must comply with the VOC content limits of the following:

- Green Seal Standard GS-11, Paints Edition, May 20, 1993,
- Green Seal Standard GC-03, Anti-Corrosive Paints, Second Edition, January 7, 1997, and
- South Coast Air Quality Management District (SCAQMD) Rule 1113, Architectural Coatings, rules in effect on January 1, 2004.

Detailed Rating

No	Product Name	Manufacturer	Related Credit	Product Type	VOC-Content		Contribution of Product	
					Allowable	Product		
A1	KÖSTER TPO	KÖSTER BAUCHEMIE AG AURICH	N/A	N/A	N/A	N/A	The product is no adhesive, sealant, paint or coating.	

Notice: This declaration is a product of HOINKA GmbH. This data sheet is published in the online database greenbuildingproducts.eu. The data sheet is only valid as LEED evidence in conjunction with the manufacturer's declarations and product certificates that prove the information given in this declaration. This declaration is no official certificate in terms of LEED. The contents are based on manufacturer specifications. In spite of a diligent treatment of all information HOINKA GmbH cannot guarantee the actuality or correctness of the published data. The interpretation of the LEED criteria requirements can differ and depend on the project and the scope of application. In spite of a diligent treatment of all information HOINKA GmbH cannot guarantee the correctness of evaluation in terms of the LEED requirements. The user of this declaration, the consumer of the product and the consultant/planner, who is advising this product in any construction projects, is responsible by himself to proof all data

Product Declaration - LEED® 2009 New Construction And Major Renovations NC & CS
MANUFACTURER KÖSTER BAUCHEMIE AG AURICH

PRODUCT NAME KÖSTER TPO

MR Credit 4: Recycled Content (1-2 Points)
Intent

To increase demand for building products that incorporate recycled content materials, thereby reducing impacts resulting from extraction and processing of virgin materials.

Requirement

Use materials with recycled content* such that the sum of post-consumer** recycled content plus one-half of the pre-consumer*** content constitutes at least 10%/20% (based on cost) of the total value of the materials in the project.

The minimum percentage materials recycled for each point threshold is as follows:

- 10% Recycled Content -> 1 Point
- 20% Recycled Content -> 2 Points.

* Recycled content is defined in accordance with the International Organization of Standards document, ISO 14021 — Environmental labels and declarations — Self-declared environmental claims (Type II environmental labeling).

** Postconsumer material is defined as waste material generated by households or by commercial, industrial and institutional facilities in their role as end-users of the product, which can no longer be used for its intended purpose.

*** Preconsumer material is defined as material diverted from the waste stream during the manufacturing process. Reutilization of materials (i.e., rework, regrind or scrap generated in a process and capable of being reclaimed within the same process that generated it) is excluded.

Detailed Rating

No	Product Name	Manufacturer	Recycled Content		Contribution of Product
			Post-Consumer	Pre-Consumer	
A1	KÖSTER TPO	KÖSTER BAUCHEMIE AG AURICH	Not specified	Not specified	No recycled content specified.

Product Declaration - LEED® 2009 New Construction And Major Renovations NC & CS
MANUFACTURER KÖSTER BAUCHEMIE AG AURICH

PRODUCT NAME KÖSTER TPO

MR Credit 5: Regional Materials (1-2 Points)
Intent

To increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting the use of indigenous resources and reducing the environmental impacts resulting from transportation.

Requirement

Use building materials or products that have been extracted, harvested or recovered, as well as manufactured, within 500 miles of the project site for a minimum of 10% or 20%, based on cost, of the total materials value. If only a fraction of a product or material is extracted, harvested, or recovered and manufactured locally, then only that percentage (by weight) must contribute to the regional value. The minimum percentage regional materials for each point threshold is as follows:

- 10% Regional Materials -> 1 Point
- 20% Regional Materials -> 2 Points.

Detailed Rating

No	Product Name	Manufacturer	Location Harvesting/ Extraction	Location Manufacturing
A1	KÖSTER TPO	KÖSTER BAUCHEMIE AG AURICH	Not specified	(D) Aurich