

# Product Verification

## Sustainability

Self declared according to LEED Building Design and Construction V4 (2015)

### Product Systems

#### EGOSILICON 300

EGO Dichtstoffwerke GmbH & Co. Betriebs KG

EGOSILICONE 300 is a ready-to-use, high-quality single-component silicone sealant that vulcanises through reaction with air humidity to form an elastic end product. The product is coloured, has fungicidal properties and is free of 2 methylkethyl ketone oximes (MEKO) and methylisobuthyl ketone oximes (MIBKO). Glass sealing, connection and expansion joints, concrete, plaster, masonry, metals, tension-free plastics and painted/varnished timber.

EGOSILICONE 300 transparent fulfills the requirements according to EMICODE EC 1 PLUS.

<https://www.ego.de/produkt/egosilicon300>



## Product Assessment

### Materials and Resources

Criteria	Product Verification
MR Credit Life-Cycle Impact Reduction - Option 4: Whole-Building Life-Cycle Assessment	EPD available: Yes
MR Credit BPDO - Environmental Product Declaration - Option 1: Environmental Product Declaration	50 % weighted value
MR Credit BPDO - Material Ingredients - Option 2: Material Ingredient Optimization	100 % weighted value

### Indoor Environmental Quality

Criteria	Product Verification
EQ Credit Low-Emitting Materials (except Healthcare and Schools)	Yes

Legend: yes = Product contributes toward satisfying the credit, N/A = Product not relevant in the credit, no = Credit requirements are not proven

## Summary

### The product contributes to the certification:

- The product has an Environmental Product Declaration (EPD), which can be used to calculate the building life cycle assessment under LEED MR Building Life-Cycle Impact Redcutions - Option 4: Whole-Building Life-Cycle Assessment: EPD available: Yes
- Weighted Product Value on Credit BPDO - Environmental Product Declaration - Option 1: Environmental Product Declaration: 50 % weighted value
- Weighted Product Value on Credit BPDO - Material Ingredients - Option 2: Material Ingredient Optimization: 100 % weighted value
- The entire product contributes toward satisfying EQ Credit: Low-Emitting Materials: Yes

■ Ecolabels & Product-Assessments

AgBB tested



EPD Institut Bauen und Umwelt e.V.



French VOC-Label A+



ISO 14001 - Environmental  
Management System



ISO 9001 - Quality  
Management System



SCAQMD 1168



■ Product Properties

**Ingredients:**

SVHC according REACH < 0,1 %:	Yes
Free (< 0,1 %) of chlorinated paraffins (= CP inkl. SCCP, MCCP, LCCP):	Yes
Free (< 0,1 %) of biocidal:	No
Free (< 0,1 %) of polybrominated diphenyl ethers (= PBDE):	Yes
Free (< 0,1 %) of hydrocarbon (KWS) plasticizer:	Yes
VOC content according 2004/42/EG:	0 g/l
VOC content according 2004/42/EG:	0 g/m <sup>2</sup>
Percentage of the product's composition, that is known to the chemical ingredient level	100 wt%
Free (< 0,1 %) of polybrominated biphenyls (= PBB):	Yes
Free (< 0,1 %) of hexabromocyclododecane (= HBCD):	Yes
Free (< 0,1 %) of tris (2-carboxyethyl) phosphine (= TCEP):	Yes
Free (< 0,1 %) of lead:	Yes
Free (< 0,1 %) of cadmium:	Yes
Free (< 0,1 %) of chromium-VI compounds:	Yes
Free of solvent according to VdL-RL01:	Yes
Free (< 0,1 %) of aromatic compounds:	Yes
Free (< 0,1 %) from halogenated propellants:	Yes
Free (< 0,1 %) of tin:	Yes

Free (< 0,1 %) of halogenated flame retardants:	Yes
Content of VOC:	0 %
Content of solvents:	0 %
Free (< 0,1 %) of halogens:	Yes
Free of plasticizer according to VdL-RL01:	Yes
Recycled content pre-consumer:	N/A
Recycled content post-consumer:	N/A
To what level of detail is the product composition known?	100 ppm
Rapidly renewable content	N/A
Non renewable virgin raw material content	N/A

### Circularity:

Has the product been designed for reuse, refurbishment or remanufacturing?	No
Is the product designed for a recycling of equal quality?	No
Was the product designed for biodegradation?	No
Was the Product designed for emission or direct dispersal?	No
Was the product designed for clean incineration?	No

### Manufacturer:

Environmental Management System according ISO 14001:	Yes
Final manufacturing location of the product: latitude	47.4902251743193 ° DDD
Final manufacturing location of the product: longitude	11.177539584701767 ° DDD

### Life Cycle Assessment:

Functional use period	N/A
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### Emissions:

Formaldehyde emissions after 28 days according DIN EN 717-1:	0.002 mg/m <sup>3</sup>
R-Value according to AgBB:	0,0
TVOC after 3 days according ISO 16000-3 / AgBB:	0,48 mg/m <sup>3</sup>
TVOC after 28 days according ISO 16000-3 / AgBB:	0,16 mg/m <sup>3</sup>
SVOC after 28 days according ISO 16000-3 / AgBB:	0,005 mg/m <sup>3</sup>
Carcinogens 1A and 1B after 3 days according ISO-16000 / AgBB:	0,001 mg/m <sup>3</sup>

Carcinogens 1A and 1B after 28 days according ISO-16000 0.001 mg/m<sup>3</sup>  
/ AgBB:

SVOC after 3 days according ISO 16000-3 / AgBB: N/A

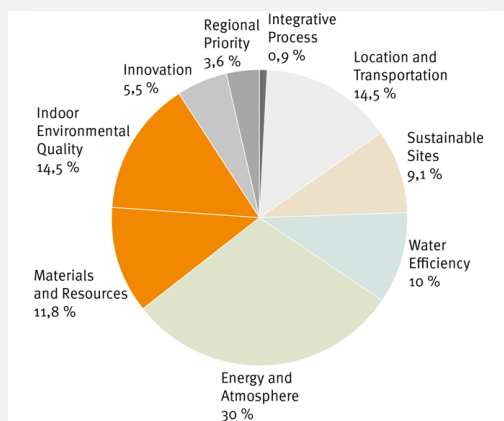
## System description

This verification is the evaluation and ranking of products in terms of the certification system LEED version 4 (Building Design and Construction). The USGBC (U.S. Green Building Council) generally does not certify products. Therefore the project team or the manufacturer is responsible to declare compliance with respect to the LEED criteria. Notice: This verification is generated by the Assessment Service of BMS. The distribution or publication by third parties is not permitted. The data sheet is not a LEED certification document. The information is based on the manufacturer's specifications. Despite a diligent treatment of all information BMS can not make any warranties about the completeness, reliability and accuracy of this information. The requirements of LEED can be interpreted differently and depend on the project and scope of application. Therefore, BMS cannot accept any liability for the evaluation in terms of the LEED criteria. The user of the data sheet, the user / purchaser of the product and the consultant / planner, who is advising on this product has the duty to check the product for the intended application at their own responsibility. When a new version of this product verification is produced, the previous version loses its validity.

Source: [www.usgbc.org](http://www.usgbc.org)

## System categories

### Category Weighting



### Category

### Category considered in product verification

Integrative Process (IP)	No
Location and Transportation (LT)	No
Sustainable Sites (SS)	No
Water Efficiency (WE)	No
Energy and Atmosphere (EA)	No
Materials and Resources (MR)	Yes
Indoor Environmental Quality (EQ)	Yes
Innovation (IN)	No
Regional Priority (RP)	No

Source: LEED v4 - New Construction

# Detailed Verification

Self declared according to LEED Building Design and Construction V4 (2015)

## Materials and Resources

### MR Credit Life-Cycle Impact Reduction - Option 4: Whole-Building Life-Cycle Assessment

The product has an Environmental Product Declaration (EPD), which can be used to calculate the building life cycle assessment under LEED MR Building Life-Cycle Impact Reductions - Option 4: Whole-Building Life-Cycle Assessment:

EGOSILICON 300	EPD available: Yes
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An environmental product declaration exists for the product:

EGOSILICON 300	Yes
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EPD Owner of the Declaration:

EGOSILICON 300	DBC, EFCC, FEICA, IVK
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EPD Publisher:

EGOSILICON 300	Institut Bauen und Umwelt e.V. (IBU)
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EPD Programme holder:

EGOSILICON 300	Institut Bauen und Umwelt e.V. (IBU)
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EPD Declaration number:

EGOSILICON 300	EPD-DBC-20220179-IBF1-EN
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EPD Issue date:

EGOSILICON 300	31.08.2022
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EPD valid to:

EGOSILICON 300	30.08.2027
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### MR Credit BPDO - Environmental Product Declaration - Option 1: Environmental Product Declaration

Weighted Product Value on Credit BPDO - Environmental Product Declaration - Option 1: Environmental Product Declaration:

EGOSILICON 300	50 % weighted value
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An environmental product declaration exists for the product:

EGOSILICON 300	Yes
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EPD Type:

EGOSILICON 300	Industry-wide (generic) EPD (Type III) conform to ISO 14025, 14040, 14044, and EN 15804 or ISO 21930
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■ MR Credit BPDO - Material Ingredients - Option 2: Material Ingredient Optimization

Weighted Product Value on Credit BPDO - Material Ingredients - Option 2: Material Ingredient Optimization:

EGOSILICON 300	100 % weighted value
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The product contains no ingredients listed on the REACH Authorization list – Annex XIV, the Restriction list – Annex XVII and the SVHC candidate list. This is proved down to fully inventoried chemical ingredients to 100 ppm (0,01 %):

EGOSILICON 300	Yes
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The Product have fully inventoried chemical ingredients to 100 ppm and no Benchmark 1 hazard according to GreenScreen v1.2 Benchmark. The product is assessed with "GreenScreen List Translator":

EGOSILICON 300	No
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The Product have fully inventoried chemical ingredients to 100 ppm and no Benchmark 1 hazard according to GreenScreen v1.2 Benchmark. The product is assessed with "GreenScreen Assessment":

EGOSILICON 300	No
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Certified with Cradle to Cradle:

EGOSILICON 300	No
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Cradle to Cradle Standard Version:

EGOSILICON 300	no entry
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Cradle to Cradle Level:

EGOSILICON 300	no entry
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■ Indoor Environmental Quality

■ EQ Credit Low-Emitting Materials (except Healthcare and Schools)

The entire product contributes toward satisfying EQ Credit: Low-Emitting Materials:

EGOSILICON 300	Yes
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The product contributes toward satisfying EQ Credit 4: Low-Emitting Materials:

EGOSILICON 300	Yes
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Interior adhesives and sealants applied on site (including flooring adhesive)

The entire product contributes toward satisfying EQ Credit 4: Low Emitting Materials, Category Adhesives and Sealants:

EGOSILICON 300	Yes
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The product contributes toward satisfying EQ Credit 4: Low Emitting Materials, Category Adhesives and Sealants:

EGOSILICON 300	Yes
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The product is an adhesive or sealant:

EGOSILICON 300	Yes
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The adhesive or sealant is wet applied on the construction site:

EGOSILICON 300	Yes
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The application of the product is inside a building:

EGOSILICON 300	Yes
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The application of the product is outside of a building:

EGOSILICON 300	Yes
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VOC product type for adhesives & sealants according to LEED v4/WELL v1:

EGOSILICON 300	Sealants Architectural
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VOC content of product (less water):

EGOSILICON 300	51 g/l
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VOC content of product (less water):

EGOSILICON 300	0 %
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TVOC after 14 days:

EGOSILICON 300	$\leq 0.48 \text{ mg/m}^3$
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Formaldehyde emissions according DIN EN 717-1:

EGOSILICON 300	$\leq 0.002 \text{ mg/m}^3$
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Emission testing method according CDPH Standard Method v1.1-2010:

EGOSILICON 300	No
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Emission testing method according AgBB Testing and Evaluation Scheme (2010):

EGOSILICON 300	Yes
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Emission testing method according ISO 16000-3: 2010, ISO 16000-6: 2011, ISO 16000-9: 2006, ISO 16000-11:2006 either in conjunction with AgBB, or with French legislation on VOC emission class labeling:

EGOSILICON 300	Yes
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Emission testing method according DIBt testing method (2010):

EGOSILICON 300	No
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#### ■ Contact Details Manufacturer

##### EGO Dichtstoffwerke GmbH & Co. Betriebs KG

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DE  
<http://www.ego.de/>



#### ■ Disclaimer

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