

# Product Verification

## Sustainability

Self declared according to BREEAM International New Construction 2016

### ■ Product Systems

#### EGOSILICON 360

EGO Dichtstoffwerke GmbH & Co. Betriebs KG

EGOSILICONE 360 is a ready-to-use, high-quality, tested single-component silicone sealant that vulcanises through reaction with air humidity to form an elastic end product and is characterised by its high abrasion-resistance. The product is coloured and fungicidal. EGOSILICONE 360 is free of 2 methylethyl ketone oximes (MEKO) and methylisobutyl ketone oximes (MIBKO) and is characterised by improved smell. Abrasion-resistant window glazing, especially for windows with glazing bars, connection and expansion joints, concrete, plaster, masonry, metals, tensionfree plastics and painted/varnished timber. EGOSILICONE 360 transparent fulfills the requirements according to EMICODE EC 1 PLUS.

<https://www.ego.de/produkt/egosilicon360>



## Product Assessment

### Health and wellbeing

Criteria	Product Verification
Hea 02 Indoor air quality (GN22 V2.0 April 2016)	Yes
Hea 02 Indoor air quality - Exemplary Level (GN22 V2.0 April 2016)	Yes

### Materials

Criteria	Product Verification
Mat 01 Life cycle impacts	EPD available: 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 contributes toward satisfying Hea 02 Indoor air quality: Yes
- The product contributes toward satisfying Hea 02 Indoor air quality - Exemplary Level: Yes
- The product has an Environmental Product Declaration (EPD) which can be used to calculate the building life cycle assessment: EPD available: Yes

## Ecolabels & Product-Assessments

AgBB tested



EPD



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:

Percentage of the product's composition, that is known to the chemical ingredient level	100 wt%
SVHC according REACH < 0,1 %:	Yes
Recycled content post-consumer:	N/A
Recycled content pre-consumer:	N/A
Free (< 0,1 %) of polybrominated diphenyl ethers (= PBDE):	Yes
Free (< 0,1 %) of chlorinated paraffins (= CP inkl. SCCP, MCCP, LCCP):	Yes
Free (< 0,1 %) of biocidal:	No
VOC content according 2004/42/EG:	0 g/l
Content of solvents:	0 %
Free (< 0,1 %) of hydrocarbon (KWS) plasticizer:	Yes
Content of VOC:	0 %
To what level of detail is the product composition known?	100 ppm
VOC content according 2004/42/EG:	0 g/m2
Rapidly renewable content	N/A
Non renewable virgin raw material content	N/A
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
Free (< 0,1 %) of halogens:	Yes
Free of plasticizer according to VdL-RL01:	Yes

### Manufacturer:

Environmental Management System according ISO 14001:	Yes
Are reverse logistics in place for the product?	No
Final manufacturing location of the product: latitude	47.490138178497375 ° DDD
Final manufacturing location of the product: longitude	11.177818534416659 ° DDD

### Emissions:

Formaldehyde emissions after 28 days according DIN EN 717-1:	0.002 mg/m <sup>3</sup>
R-Value according to AgBB:	N/A
TVOC after 3 days according ISO 16000-3 / AgBB:	N/A
TVOC after 28 days according ISO 16000-3 / AgBB:	N/A
SVOC after 3 days according ISO 16000-3 / AgBB:	N/A
SVOC after 28 days according ISO 16000-3 / AgBB:	N/A
Carcinogens 1A and 1B after 3 days according ISO-16000 / AgBB:	N/A
Carcinogens 1A and 1B after 28 days according ISO-16000 / AgBB:	0.001 mg/m <sup>3</sup>

### 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
Product was designed with cycling in mind.	No
Was the product designed for clean incineration?	No
Was the Product designed for emission or direct dispersal?	No

Was the product specifically designed for clean and rapid disassembly? No

**Life Cycle Assessment:**

Functional use period N/A

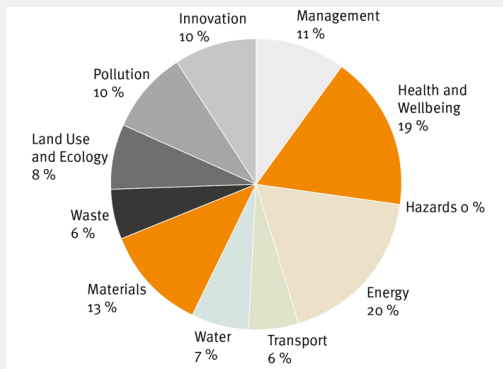
■ System description

The BREEAM (Building Research Establishment Environmental Assessment Method) certification system was published by the Building Research Establishment (BRE). It came on the market in 1990 and was one of the first certification systems for buildings. BREEAM offers different standards, which vary in the requirements, depending on the country, type of use and development phase of the project (new construction, in-use, refurbishment and fit-out, infrastructure and communities). Within ten environmental categories and numerous individual credits, buildings are rated and can be rated as Acceptable (for in-use scheme only), Pass, Good, Very Good, Excellent and Outstanding. Up to now, more than 16,300 BREEAM projects have been certified worldwide (as of April 2018).

Source: [www.breeam.com](http://www.breeam.com)

■ System categories

Category Weighting



Category

Category considered in product verification

Management (Man)	No
Health and wellbeing (Hea)	Yes
Energy (Ene)	No
Transport (Tra)	No
Water (Wat)	No
Materials (Mat)	Yes
Waste (Wst)	No
Land use and ecology (LE)	No
Pollution (Pol)	No
Innovation (Inn)	No

Source: BREEAM International NC 2016 - Non-residential - Fully Fitted (TM 2.0)

# Detailed Verification

Self declared according to BREEAM International New Construction 2016

## Health and wellbeing

### Hea 02 Indoor air quality (GN22 V2.0 April 2016)

The product contributes toward satisfying Hea 02 Indoor air quality:

EGOSILICON 360	Yes
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The product contributes toward satisfying Hea 02 Indoor air quality:

EGOSILICON 360	Yes
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Interior adhesives and sealants (including flooring adhesives)

The entire product complies with Hea 02 Indoor air quality for interior adhesives and sealants (including flooring adhesives):

EGOSILICON 360	Yes
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The product complies with Hea 02 Indoor air quality for interior adhesives and sealants (including flooring adhesives):

EGOSILICON 360	Yes
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The product is an adhesive or sealant:

EGOSILICON 360	Yes
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The application of the product is inside a building:

EGOSILICON 360	Yes
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Formaldehyde after 28 days  $\leq 0.06 \text{ mg/m}^3$ :

EGOSILICON 360	Yes
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Formaldehyde emissions according DIN EN 717-1:

EGOSILICON 360	$\leq 0.002 \text{ mg/m}^3$
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TVOC after 28 days  $\leq 1.0 \text{ mg/m}^3$ :

EGOSILICON 360	Yes
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TVOC after 28 days:

EGOSILICON 360	$< 0.016 \text{ mg/m}^3$
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Category 1A and 1B carcinogens after 28 days  $\leq 0.001 \text{ mg/m}^3$ :

EGOSILICON 360	Yes
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Carcinogens 1A and 1B after 28 days according ISO-16000 / AgBB:

EGOSILICON 360	$< 0.001 \text{ mg/m}^3$
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Certified with eco-INSTITUT-Label:

EGOSILICON 360	No
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Certified with UL Greenguard Gold:

EGOSILICON 360	No
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Certified with UL Greenguard:

EGOSILICON 360	No
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GREENGUARD certification confirms that there are no measured carcinogens:

EGOSILICON 360	No
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Certified with Indoor Air Comfort:

EGOSILICON 360	No
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Certified with Indoor Air Comfort Gold:

EGOSILICON 360	No
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Certified with M1 Emission Classification of Building Materials:

EGOSILICON 360	No
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Certified EMICODE standard:

EGOSILICON 360	no entry
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#### ■ Hea 02 Indoor air quality - Exemplary Level (GN22 V2.0 April 2016)

The product contributes toward satisfying Hea 02 Indoor air quality - Exemplary Level:

EGOSILICON 360	Yes
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The product contributes toward satisfying Hea 02 Indoor air quality - Exemplary Level:

EGOSILICON 360	Yes
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Interior adhesives and sealants (including flooring adhesives) - Exemplary Level

The entire product complies with Hea 02 Indoor air quality - Exemplary Level for interior adhesives and sealants (including flooring adhesives):

EGOSILICON 360	Yes
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The product complies with Hea 02 Indoor air quality - Exemplary Level for interior adhesives and sealants (including flooring adhesives):

EGOSILICON 360	Yes
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The product is an adhesive or sealant:

EGOSILICON 360	Yes
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The application of the product is inside a building:

EGOSILICON 360	Yes
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Formaldehyde after 28 days  $\leq 0.01 \text{ mg/m}^3$ :

EGOSILICON 360	Yes
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Formaldehyde emissions according DIN EN 717-1:

EGOSILICON 360	$\leq 0.002 \text{ mg/m}^3$
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TVOC after 28 days  $\leq 0.3 \text{ mg/m}^3$ :

EGOSILICON 360	Yes
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TVOC after 28 days:

EGOSILICON 360	$< 0.016 \text{ mg/m}^3$
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TSVOC after 28 days  $\leq 0,1 \text{ mg/m}^3$ :

EGOSILICON 360	Yes
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TSVOC after 28 days:

EGOSILICON 360	$< 0.005 \text{ mg/m}^3$
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Category 1A and 1B carcinogens after 28 days  $\leq 0.001 \text{ mg/m}^3$ :

EGOSILICON 360	Yes
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Carcinogens 1A and 1B after 28 days according ISO-16000 / AgBB:

EGOSILICON 360	$< 0.001 \text{ mg/m}^3$
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Certified with Indoor Air Comfort Gold:

EGOSILICON 360	No
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Certified EMICODE standard:

EGOSILICON 360	no entry
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■ Materials

■ Mat 01 Life cycle impacts

The product has an Environmental Product Declaration (EPD) which can be used to calculate the building life cycle assessment:

EGOSILICON 360	EPD available: Yes
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An environmental product declaration exists for the product:

EGOSILICON 360	Yes
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EPD Owner of the Declaration:

EGOSILICON 360	DBC, EFCC, FEICA, IVK
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EPD Publisher:

EGOSILICON 360	Institut Bauen und Umwelt e.V. (IBU)
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EPD Programme holder:

EGOSILICON 360	Institut Bauen und Umwelt e.V. (IBU)
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EPD Declaration number:

EGOSILICON 360	EPD-DBC-20220180-IBF1-EN
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EPD Issue date:

EGOSILICON 360	31.08.2022
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EPD valid to:

EGOSILICON 360	30.08.2027
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#### ■ Contact Details Manufacturer

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#### ■ Disclaimer

This verification is the evaluation and ranking of products in terms of the certification system DGNB 2015 (New construction of office buildings). The DGNB (Deutsche Gesellschaft für Nachhaltiges Bauen) generally does not certify products. Therefore the project team or the manufacturer is responsible to declare compliance with respect to the DGNB 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 DGNB 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 DGNB 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 DGNB 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.