

# Product Verification

## Sustainability

Self declared according to BREEAM International New Construction 2016

### Product Systems

#### EGOSILICON 151

EGO Dichtstoffwerke GmbH & Co. Betriebs KG

EGOSILICONE 151 is a ready-to-use, extremely high-quality, abrasion-resistant and plasticiser-free single-component silicone sealant with best processing characteristics that vulcanises through reaction with air humidity to form an elastic end product. EGOSILICONE 151 is resistant to chemicals (diluted acids and lyes, household cleaning agents and the like), fungicidal and waterproof with optimum skinforming time and secure vulcanisation; it ensures excellent processing characteristics and very good modeling and smoothing properties. Permanent high-quality sealing in the fields of construction and sanitary applications. For sealing, edge and connection joints in glass, ceramics, porcelain, enamel, tiles, aluminium, stainless steel, polyacrylate, polycarbonate, polyester, hard PVC and timber.

EGOSILICONE 151 fulfills the requirements according to EMICODE EC 1.

<https://www.ego.de/produkt/egosilicon151>



## Product Assessment

### Health and wellbeing

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

■ Ecolabels & Product-Assessments

AgBB tested



EMICODE

EMICODE EC1



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:**

SVHC according REACH < 0,1 %:	Yes
Percentage of the product's composition, that is known to the chemical ingredient level	100 wt%
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
Recycled content pre-consumer:	N/A
Recycled content post-consumer:	N/A
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/m2
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
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 halogenated flame retardants:	No
Content of VOC:	0 %
Content of solvents:	0 %
Free (< 0,1 %) of halogens:	Yes
Free of plasticizer according to VdL-RL01:	Yes

#### **Manufacturer:**

Environmental Management System according ISO 14001:	Yes
Final manufacturing location of the product: latitude	47.490138178497375 ° DDD
Final manufacturing location of the product: longitude	11.178027746972168 ° DDD

#### **Emissions:**

Formaldehyde emissions after 28 days according DIN EN 717-1:	0.002 mg/m <sup>3</sup>
R-Value according to AgBB:	0,01
TVOC after 3 days according ISO 16000-3 / AgBB:	0,28 mg/m <sup>3</sup>
TVOC after 28 days according ISO 16000-3 / AgBB:	0,038 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 / AgBB:	0.001 mg/m <sup>3</sup>
SVOC after 3 days according ISO 16000-3 / AgBB:	N/A
SVOC after 28 days according ISO 16000-3 / AgBB:	N/A

#### **Life Cycle Assessment:**

Functional use period	N/A
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#### **Circularity:**

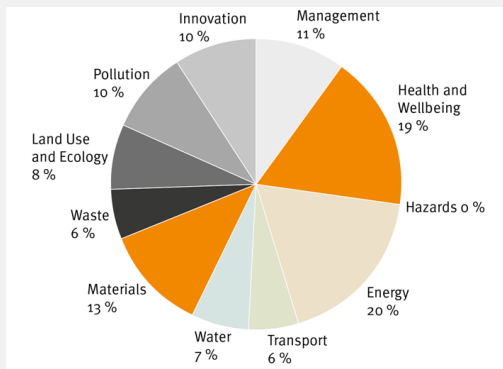
■ System description

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

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

EGOSILICON 151	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 151	Yes
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The product complies with Hea 02 Indoor air quality for interior adhesives and sealants (including flooring adhesives):

EGOSILICON 151	Yes
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The product is an adhesive or sealant:

EGOSILICON 151	Yes
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The application of the product is inside a building:

EGOSILICON 151	Yes
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Formaldehyde after 28 days  $\leq 0.06 \text{ mg/m}^3$ :

EGOSILICON 151	Yes
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Formaldehyde emissions according DIN EN 717-1:

EGOSILICON 151	$\leq 0.002 \text{ mg/m}^3$
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TVOC after 28 days  $\leq 1.0 \text{ mg/m}^3$ :

EGOSILICON 151	Yes
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TVOC after 28 days:

EGOSILICON 151	$< 0.029 \text{ mg/m}^3$
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Category 1A and 1B carcinogens after 28 days  $\leq 0.001 \text{ mg/m}^3$ :

EGOSILICON 151	Yes
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Carcinogens 1A and 1B after 28 days according ISO-16000 / AgBB:

EGOSILICON 151	$< 0.001 \text{ mg/m}^3$
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Certified with eco-INSTITUT-Label:

EGOSILICON 151	Yes
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Certified with UL Greenguard Gold:

EGOSILICON 151	No
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Certified with UL Greenguard:

EGOSILICON 151	No
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GREENGUARD certification confirms that there are no measured carcinogens:

EGOSILICON 151	No
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Certified with Indoor Air Comfort:

EGOSILICON 151	No
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Certified with Indoor Air Comfort Gold:

EGOSILICON 151	No
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Certified with M1 Emission Classification of Building Materials:

EGOSILICON 151	No
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Certified EMICODE standard:

EGOSILICON 151	EMICODE EC1
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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 151	Yes
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The product contributes toward satisfying Hea 02 Indoor air quality - Exemplary Level:

EGOSILICON 151	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 151	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 151	Yes
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The product is an adhesive or sealant:

EGOSILICON 151	Yes
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The application of the product is inside a building:

EGOSILICON 151	Yes
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Formaldehyde after 28 days  $\leq 0.01 \text{ mg/m}^3$ :

EGOSILICON 151	Yes
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Formaldehyde emissions according DIN EN 717-1:

EGOSILICON 151	$\leq 0.002 \text{ mg/m}^3$
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TVOC after 28 days  $\leq 0.3 \text{ mg/m}^3$ :

EGOSILICON 151	Yes
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TVOC after 28 days:

EGOSILICON 151	$< 0.029 \text{ mg/m}^3$
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TSVOC after 28 days  $\leq 0,1 \text{ mg/m}^3$ :

EGOSILICON 151	Yes
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TSVOC after 28 days:

EGOSILICON 151	$< 0.005 \text{ mg/m}^3$
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Category 1A and 1B carcinogens after 28 days  $\leq 0.001 \text{ mg/m}^3$ :

EGOSILICON 151	Yes
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Carcinogens 1A and 1B after 28 days according ISO-16000 / AgBB:

EGOSILICON 151	$< 0.001 \text{ mg/m}^3$
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Certified with Indoor Air Comfort Gold:

EGOSILICON 151	No
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Certified EMICODE standard:

EGOSILICON 151	EMICODE EC1
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#### ■ Contact Details Manufacturer

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

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DE  
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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.