

# Product Verification

## Sustainability

Self declared according to BREEAM International New Construction 2016 / V6.0

### ■ Product Systems

#### EGOSILICON 351

EGO Dichtstoffwerke GmbH & Co. Betriebs KG

EGOSILICONE 351 is a ready-to-use, high-quality single-component silicone sealant that is free from plasticisers and vulcanises through reaction with air humidity to form an elastic end product. The product is suitable for natural stone in both indoor and outdoor areas.

The product is:

- creep-free
- compatible with natural stone
- colored fungicidal adjusted
- shiny abrasion resistant
- water-proof
- optimum skin-forming time

Sealing connection and movement joints in the sanitary sector, as well as for natural and artificial stone.

EGOSILICONE 351 fulfills the requirements according to EMICODE EC 1.

<https://www.ego.de/produkt/egosilicon351>



## ■ 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
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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



EMICODE

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%
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
Recycled content post-consumer:	N/A
Recycled content pre-consumer:	N/A
VOC content according 2004/42/EG:	0 g/l
VOC content according 2004/42/EG:	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:	Yes



Content of VOC:	0 %
Content of solvents:	0 %
Free (< 0,1 %) of halogens:	Yes
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 tin:	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: longitude	11.177829263566535 ° DDD
Final manufacturing location of the product: latitude	47.49054076514584 ° DDD

#### Emissions:

Formaldehyde emissions after 28 days according DIN EN 717-1:	0.002 mg/m³
R-Value according to AgBB:	0,02
TVOC after 3 days according ISO 16000-3 / AgBB:	0,89 mg/m³
TVOC after 28 days according ISO 16000-3 / AgBB:	0,049 mg/m³
Carcinogens 1A and 1B after 3 days according ISO-16000 / AgBB:	0,001 mg/m³
Carcinogens 1A and 1B after 28 days according ISO-16000 / AgBB:	0.001 mg/m³
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:

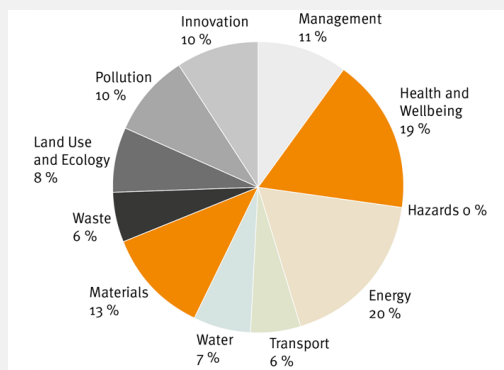
## ■ System description

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

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 / V6.0

## Health and wellbeing

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

The product contributes toward satisfying Hea 02 Indoor air quality:

EGOSILICON 351	Yes
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The product contributes toward satisfying Hea 02 Indoor air quality:

EGOSILICON 351	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 351	Yes
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The product complies with Hea 02 Indoor air quality for interior adhesives and sealants (including flooring adhesives):

EGOSILICON 351	Yes
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The product is an adhesive or sealant:

EGOSILICON 351	Yes
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The application of the product is inside a building:

EGOSILICON 351	Yes
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Formaldehyde after 28 days  $\leq 0.06 \text{ mg/m}^3$ :

EGOSILICON 351	Yes
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Formaldehyde emissions according DIN EN 717-1:

EGOSILICON 351	$\leq 0.002 \text{ mg/m}^3$
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TVOC after 28 days  $\leq 1.0 \text{ mg/m}^3$ :

EGOSILICON 351	Yes
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TVOC after 28 days:

EGOSILICON 351	$< 0.049 \text{ mg/m}^3$
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Category 1A and 1B carcinogens after 28 days  $\leq 0.001 \text{ mg/m}^3$ :

EGOSILICON 351	Yes
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Carcinogens 1A and 1B after 28 days according ISO-16000 / AgBB:

EGOSILICON 351	$< 0.001 \text{ mg/m}^3$
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Certified with eco-INSTITUT-Label:

EGOSILICON 351	No
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Certified with UL Greenguard Gold:

EGOSILICON 351	No
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Certified with UL Greenguard:

EGOSILICON 351	No
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GREENGUARD certification confirms that there are no measured carcinogens:

EGOSILICON 351	No
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Certified with Indoor Air Comfort:

EGOSILICON 351	No
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Certified with Indoor Air Comfort Gold:

EGOSILICON 351	No
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Certified with M1 Emission Classification of Building Materials:

EGOSILICON 351	No
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Certified EMICODE standard:

EGOSILICON 351	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 351	Yes
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The product contributes toward satisfying Hea 02 Indoor air quality - Exemplary Level:

EGOSILICON 351	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 351	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 351	Yes
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The product is an adhesive or sealant:

EGOSILICON 351	Yes
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The application of the product is inside a building:

EGOSILICON 351	Yes
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Formaldehyde after 28 days  $\leq 0.01 \text{ mg/m}^3$ :

EGOSILICON 351	Yes
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Formaldehyde emissions according DIN EN 717-1:

EGOSILICON 351	$\leq 0.002 \text{ mg/m}^3$
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TVOC after 28 days  $\leq 0.3 \text{ mg/m}^3$ :

EGOSILICON 351	Yes
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TVOC after 28 days:

EGOSILICON 351	$< 0.049 \text{ mg/m}^3$
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TSVOC after 28 days  $\leq 0,1 \text{ mg/m}^3$ :

EGOSILICON 351	Yes
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TSVOC after 28 days:

EGOSILICON 351	$< 0.005 \text{ mg/m}^3$
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Category 1A and 1B carcinogens after 28 days  $\leq 0.001 \text{ mg/m}^3$ :

EGOSILICON 351	Yes
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Carcinogens 1A and 1B after 28 days according ISO-16000 / AgBB:

EGOSILICON 351	$< 0.001 \text{ mg/m}^3$
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Certified with Indoor Air Comfort Gold:

EGOSILICON 351	No
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Certified EMICODE standard:

EGOSILICON 351	EMICODE EC1
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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 351	EPD available: Yes
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An environmental product declaration exists for the product:

EGOSILICON 351	Yes
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EPD Owner of the Declaration:

EGOSILICON 351	DBC, EFCC, FEICA, IVK
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EPD Publisher:

EGOSILICON 351	Institut Bauen und Umwelt e.V. (IBU)
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EPD Programme holder:

EGOSILICON 351	Institut Bauen und Umwelt e.V. (IBU)
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EPD Declaration number:

EGOSILICON 351	EPD-DBC-20220180-IBF1-EN
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EPD Issue date:

EGOSILICON 351	31.08.2022
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EPD valid to:

EGOSILICON 351	30.08.2027
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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.