

Product Verification

Sustainability

Self declared according to DGNB NBV 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

Environmental Quality (ENV)

Criteria

Product Verification

| | |
|---|----------------------|
| ENV 1.1/2.1 Life cycle assessment (Updated on: 26.01.2017) | EPD available: Yes |
| ENV 1.2 Local environmental impact (Updated on: 08.06.2017) | Quality level 4 of 4 |

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:
EPD available: Yes
- Achieved quality level in DGNB Criteria ENV 1.2 Local environmental impact for the entire product: Quality level 4 of 4

■ 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:

| | |
|---|---------|
| 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/m2 |
| 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 |
| 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 |
|-----------------------|-----|

Emissions:

| | |
|---|-------------------------|
| Formaldehyde emissions after 28 days according DIN EN 717-1: | 0.002 mg/m ³ |
| R-Value according to AgBB: | 0,0 |
| TVOC after 3 days according ISO 16000-3 / AgBB: | 0,48 mg/m ³ |
| TVOC after 28 days according ISO 16000-3 / AgBB: | 0,16 mg/m ³ |
| SVOC after 28 days according ISO 16000-3 / AgBB: | 0,005 mg/m ³ |
| Carcinogens 1A and 1B after 3 days according ISO-16000 / AgBB: | 0,001 mg/m ³ |
| Carcinogens 1A and 1B after 28 days according ISO-16000 / AgBB: | 0.001 mg/m ³ |
| SVOC after 3 days according ISO 16000-3 / AgBB: | N/A |

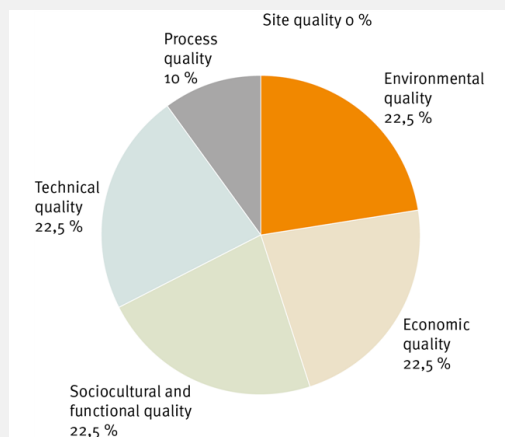
■ System description

The DGNB certification system was founded by the "German Sustainable Building Council" and first appeared on the market in 2008. The DGNB system evaluates buildings holistically on the basis of individual criteria within the categories Ecological Quality, Economic Quality, Sociocultural and Functional Quality, Technical Quality, Process Quality and Location Quality. Different profiles allow the certification of new buildings and existing buildings, as well as of quarters in Germany and Internationally. Buildings can achieve a certification in Bronze, Silver, Gold and Platinum. Up to now, more than 3,500 projects have been awarded by the DGNB (as of June 2018).

Source: www.dgnb.de

■ System categories

Category Weighting



Category

Category considered in product verification

| | |
|--|-----|
| Environmental quality (ENV) | Yes |
| Economic quality (ECO) | No |
| Sociocultural and functional quality (SOC) | No |
| Technical quality (TEC) | No |
| Process quality (PRO) | Yes |
| Site quality (SITE) | No |

Source: DGNB NBV 15

Detailed Verification

Self declared according to DGNB NBV 2015

■ Environmental Quality (ENV)

■ ENV 1.1/2.1 Life cycle assessment (Updated on: 26.01.2017)

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

| | |
|----------------|--------------------|
| EGOSILICON 300 | EPD available: Yes |
|----------------|--------------------|

An environmental product declaration exists for the product:

| | |
|----------------|-----|
| EGOSILICON 300 | Yes |
|----------------|-----|

EPD Owner of the Declaration:

| | |
|----------------|-----------------------|
| EGOSILICON 300 | DBC, EFCC, FEICA, IVK |
|----------------|-----------------------|

EPD Publisher:

| | |
|----------------|--------------------------------------|
| EGOSILICON 300 | Institut Bauen und Umwelt e.V. (IBU) |
|----------------|--------------------------------------|

EPD Programme holder:

| | |
|----------------|--------------------------------------|
| EGOSILICON 300 | Institut Bauen und Umwelt e.V. (IBU) |
|----------------|--------------------------------------|

EPD Declaration number:

| | |
|----------------|--------------------------|
| EGOSILICON 300 | EPD-DBC-20220179-IBF1-EN |
|----------------|--------------------------|

EPD Issue date:

| | |
|----------------|------------|
| EGOSILICON 300 | 31.08.2022 |
|----------------|------------|

EPD valid to:

| | |
|----------------|------------|
| EGOSILICON 300 | 30.08.2027 |
|----------------|------------|

■ ENV 1.2 Local environmental impact (Updated on: 08.06.2017)

Achieved quality level in DGNB Criteria ENV 1.2 Local environmental impact for the entire product:

| | |
|----------------|----------------------|
| EGOSILICON 300 | Quality level 4 of 4 |
|----------------|----------------------|

Achieved quality level in DGNB Criterion ENV 1.2 Local environmental impact:

| | |
|----------------|-----------------|
| EGOSILICON 300 | Quality level 4 |
|----------------|-----------------|



Row 12: Adhesions of mechanically stressed joints over small areas; the areas glass construction, façade and fire protection are not considered here. Sealing compounds, sealing substances, adhesives for dot like and linear adhesions of components in the interior area. Acrylate sealing substances/adhesives and silicone sealing substances are what is meant here.

Achieved quality level in DGNB ENV 1.2 Row 12 for the entire product:

| | |
|----------------|-----------------|
| EGOSILICON 300 | Quality level 4 |
|----------------|-----------------|

Achieved quality level in DGNB ENV 1.2 Row 12:

| | |
|----------------|-----------------|
| EGOSILICON 300 | Quality level 4 |
|----------------|-----------------|

Adhesives and sealants (acrylate, silicone, SMP) - interior and technical building equipments (DGNB ENV1.2 Row 12):

| | |
|----------------|-----|
| EGOSILICON 300 | Yes |
|----------------|-----|

Free of chlorinated paraffins (CP):

| | |
|----------------|-----|
| EGOSILICON 300 | Yes |
|----------------|-----|

Content of solvent < 1 %:

| | |
|----------------|-----|
| EGOSILICON 300 | Yes |
|----------------|-----|

Content of solvents:

| | |
|----------------|-----|
| EGOSILICON 300 | 0 % |
|----------------|-----|

Free (< 0,1 %) of KWS plasticizers:

| | |
|----------------|-----|
| EGOSILICON 300 | Yes |
|----------------|-----|

Row 13: Assembly adhesives and sealants on the facade, windows and exterior doors (provided by the customer). - Adhesive for the production of airtightness on the facade inside and outside: e.g. PU, PU hybrid, MS polymer, SMP or similar.

Achieved quality level in DGNB ENV 1.2 Row 13 for the entire product:

| | |
|----------------|-----------------|
| EGOSILICON 300 | Quality level 4 |
|----------------|-----------------|

Achieved quality level in DGNB ENV 1.2 Row 13:

| | |
|----------------|-----------------|
| EGOSILICON 300 | Quality level 4 |
|----------------|-----------------|

Adhesives and sealants (PU, PU hybrid, MS polymer, SMP or the like) - on the façade, windows and external doors (DGNB ENV1.2 Row 13):

| | |
|----------------|-----|
| EGOSILICON 300 | Yes |
|----------------|-----|

Content of VOC < 1 %:

| | |
|----------------|-----|
| EGOSILICON 300 | Yes |
|----------------|-----|

Content of VOC:

| | |
|----------------|-----|
| EGOSILICON 300 | 0 % |
|----------------|-----|

Certified with EMICODE EC1/EC1PLUS, EC1-R/EC1PLUS-R:

| | |
|----------------|----|
| EGOSILICON 300 | No |
|----------------|----|

Certified EMICODE standard:

| | |
|----------------|----------|
| EGOSILICON 300 | no entry |
|----------------|----------|

■ Contact Details Manufacturer

EGO Dichtstoffwerke GmbH & Co. Betriebs KG

Kaltenbrunn 27
82467 Garmisch-Partenkirchen
DE
<http://www.ego.de/>



■ 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.