

Product verification

Manufacturer's declaration

Product group SILICONE SEALANTS (oxime-free)

EGO Dichtstoffwerke GmbH & Co. Betriebs KG



Building certification systems

**DGNB New Building 18
and DGNB New
Building 23**



QNG Plus Version



**BNB - Assessment
system for sustainable
building**



EU taxonomy



LEED v4.1



**BREEAM DE New Build
2018 & BREEAM
International 2016**



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Overview of products

The declaration evaluates the following products:

Adhesives and sealants

- EGOSILICON 100 Ultra
- EGOSILICON 110 AQUARIUM & GLASS
- EGOSILICON 111 FOOD & DRINKING WATER
- EGOSILICON 120 HIGH TEMPERATURE
- EGOSILICON 151 SANITARY
- EGOSILICON 400 CONSTRUCTION
- EGOSILICON 460 BAUFIX
- EGO MIRROR ADHESIVE

The product may consist of the following components:

Adhesives and sealants

- silicone
- Fire protection silicones

DGNB New Build 2018 and DGNB New Build 2023

ENV1.2 Risks for the local environment

The requirements of quality level 1-4 in the DGNB System 2018 and 2023 for criterion *ENV1.2 Risks for the local environment* are met.

Assessment result: Quality level 4

Criteria requirement	Compliance with DGNB New Build 2018 and DGNB New Build 2023
<p>DGNB (only applies to 2018 version) Line 12: Adhesives and sealants Acrylic sealants/adhesives, silicone sealants and SMP (hybrid sealants)</p> <p>Small-surface bonding of mechanically stressed joints; the areas of glass construction, façades and fire protection are not considered here</p>	<p>Requirement quality level 1-4 is fulfilled: Chlorinated kerosenes (SCCPs + MCCPs + LCCPs) < 0.1 % and solvents < 1% and KWS plasticizers < 0.1 %</p>
<p>DGNB line 13: Assembly adhesives and sealants on the façade, windows and exterior doors</p> <p>Assembly adhesives and sealants on the façade, windows and exterior doors</p>	<p>Requirement quality level 1-4 is fulfilled: Chlorinated kerosenes (SCCPs + MCCPs + LCCPs) < 0.1 % and halogenated blowing agents < 0.1 %, and proof of equivalence to EMICODE EC1Plus with regard to GEV classification criteria (03/2022) sections 3.2. has been verified by means of an emission test. The emission limit values according to AGBB scheme 2018 version were verified and complied with via a test chamber test.</p>
<p>DGNB (only applies to version 2023) Line 11: Sealants, adhesives for point and linear bonding of components in the interior: - mechanically stressed joints - skirting boards - door rails - Column adhesive (raised or hollow floor) - Ventilation ducts</p> <p>This refers to acrylic sealants/adhesives, silicone sealants, PU adhesives and silane-modified polymers (SMP)</p>	<p>Requirement quality level 1-4 is fulfilled: GISCODE - PU10, PU20, RS10, DA20, DSE20, DSA20, DSO20, DH20 or DSC20 and proof of equivalence to EMICODE EC1Plus with regard to GEV classification criteria (03/2022) sections 3.2. has been provided via an emissions test. The emission limit values according to AGBB scheme 2018 version were verified and complied with via a test chamber test.</p>

ENV1.3 Responsible resource extraction

Not relevant for consideration.

QNG Plus Version 1.1-1.5

ANF3-1 Avoidance of harmful substances in building materials

This fulfills the requirements of QNG Plus Version 1.1-1.5 Requirement 3: - *ANF3-1 Avoidance of pollutants in building materials.*

Assessment result: Fulfilled

Criteria requirement	Fulfillment QNG version 1.1-1.5
Requirement 1.1 Overarching requirement for the Quality of the building	Requirements are fulfilled: Manufacturer information according to REACH with contained SVHC > 0.1 % is available.
Requirement 4.1/4.2/4.3: Adhesives and sealants (acrylates and silicones) used on site in indoor areas Adhesives and sealants based on PU, PU hybrid and SMP formulations (silane-modified polymers) processed on site in indoor areas Adhesives and sealants based on PU, PU hybrid, MS polymer or SMP (silane-modified polymers) for creating airtightness on façades, windows and exterior doors (interior and exterior)	Requirements are fulfilled: Declaration of biocidal active substances in silicones Chlorinated kerosenes, PBB, PBDE, TCEP ≤ 0.10 % Solvent-free
13.2 Internal and external fire barriers: Fire protection fillers, fire protection coatings for cables and fire protection silicones Fillers, coatings, bonding and sealing with fire protection requirements Sealings with fire protection requirements (e.g. cable penetration seals, RS doors, glazing, etc.)	Requirements are fulfilled: Chlorinated kerosenes, PBB, PBDE, TCEP ≤ 0.10 %

ANF2-WG1/NW1 Sustainable material extraction

Not relevant for consideration.

BNB - Assessment system for sustainable building 2015/2017

1.1.6 Risks for the local environment

This means that the requirements of quality levels 1-5 in the BNB system 2015/2017 criterion *Risks for the local environment* are fulfilled.

Assessment result: Quality level 5

1. overarching requirements	Fulfillment of BNB quality level 1-5
Item 0 SVHC All construction products listed in Annex 1.	Requirement quality level 1-5 is fulfilled: Manufacturer information according to REACH with contained SVHC > 0.1 % is available.
6. adhesives and sealants	Fulfillment of BNB quality level 1-5
Item 8 On-site processed sealants, joint sealants, adhesives Adhesives and sealants made of PU, SMP (silane-modified polymers), acrylate (including dispersion adhesives) or silicone	Requirement quality level 1-5 is fulfilled: Do not contain amine or oxime-curing silicones. Proof of equivalence to EMICODE EC1Plus with regard to GEV classification criteria (03/2022) sections 3.2. has been verified by means of an emission test. The emission limit values according to AGBB scheme 2018 version were verified by a test chamber test and complied with. Chlorinated kerosenes < 0.1 % The following also applies to PU adhesives: TCEP < 0.1 %
Item 9 Adhesives and joint sealants processed on site Adhesives and sealants for creating airtightness on façades inside and outside: e.g. PU, PU hybrid, MS polymer, SMP or similar	Requirement quality level 1-5 is fulfilled: Proof of equivalence to EMICODE EC1Plus with regard to GEV classification criteria (03/2022) sections 3.2. has been provided via an emissions test. The emission limit values according to AGBB scheme 2018 version were verified and complied with via a test chamber test.

4. surface coatings on predominantly non-mineral surfaces (wood, metals, plastics)	Fulfillment of BNB quality level 1-5
<p>Item 44 Hazardous individual substances Flame-retardant surface coatings and fillers applied on site</p> <p>Fire protection fillers, fire protection coatings for cables, fire protection silicones</p>	<p>Requirement quality level 1-5 is fulfilled: Chlorinated kerosenes, PBB, PBDE, TCEP < 0.1 % contained</p>

1.1.7 Sustainable material extraction / wood

Not relevant for consideration.

EU taxonomy

EU Taxonomy Pollution Prevention (DNSH) Compliance Appendix C

The requirements of the EU Taxonomy regarding ingredients are fulfilled and confirmed.

Evaluation result : EU Taxonomy fulfilled

Criteria requirement	Compliance with EU taxonomy Manufacturer's declaration
a) Substances on their own, in mixtures or in articles listed in Annexes I or II to Regulation (EU) 2019/1021 , except in the case of substances present as unintentional trace impurities	Requirements are fulfilled: No substances listed in Annexes I or II of Regulation (EU) 2019/1021 are present.
b) Mercury and mercury compounds, their mixtures and mercury-added products as defined in Article 2 of Regulation (EU) 2017/852	Requirements are fulfilled: No mercury is used.
(c) Substances on their own, in mixtures or in articles listed in Annexes I or II to Regulation (EC) No 1005/2009	Requirements are fulfilled: No substances listed in Annexes I or II of Regulation (EC) No 1005/2009 are present.
d) Substances on their own, in mixtures or in articles listed in Annex II to Directive 2011/65/EU, unless Article 4(1) of this Directive is fully complied with	Requirements are fulfilled: No substances listed in Annex II to Directive (EU) 2011/65 are present.
(e) substances on their own, in mixtures or in an article listed in Annex XVII to Regulation (EC) No 1907/2006, unless the conditions set out in that Annex are fully complied with;	requirements are met: The conditions for organostannic compounds set out in Annex XVII are met. No substances listed in Annex XVII to Regulation (EU) 1907/2006 are present.

(f) substances, whether on their own, in mixtures or in an article, in a concentration above 0,1 % weight by weight (w/w) that meet the criteria laid down in Article 57 of Regulation (EC) No 1907/2006 and that have been identified in accordance with Article 59(1) of that Regulation for a period of at least 18 months, unless operators have assessed and documented that no other suitable alternative substances or technologies are available on the market and that they are used under controlled conditions. In addition, the activity does not result in the manufacture, presence in the final product or production, or placing on the market of other substances, whether on their own, in mixtures or in an article, in a concentration greater than 0,1 % weight by weight (w/w) that meet the criteria of Regulation (EC) No 1272/2008 for any of the hazard classes or categories set out in Article 57 of Regulation (EC) No 1907/2006, unless operators have assessed and documented that no other suitable alternative substances or technologies are available on the market and that they are used under controlled conditions.

Requirements are met:

No substances listed in Article 57 of Regulation (EC) No 1907/2006 are present.

EU Taxonomy - Pollution Prevention (DNSH) - Emissions Interior Products

In addition, for paints and varnishes, ceiling tiles, floor coverings, including associated adhesives and sealants, interior insulation and interior surface treatment, e.g. for the treatment of moisture and mold, the following requirements apply.

The requirements according to the EU taxonomy regarding emissions are fulfilled and confirmed.

Assessment result: EU taxonomy fulfilled

Criteria requirement	Compliance with EU taxonomy Manufacturer's declaration
<p>Compliance with the following emissions is confirmed for the product</p> <ul style="list-style-type: none"> less than 0.001 mg of other carcinogenic volatile organic compounds of categories 1A and 1B per m³ in the test chamber when tested according to CEN/EN 16516 or ISO 16000-3 or other equivalent standardized test conditions and methods of determination. <p>A corresponding emission test report can be submitted on request.</p>	<p>Requirements are fulfilled: Containing less than 0.001 mg of other carcinogenic volatile organic compounds.</p> <p>Proof of equivalence to EMICODE EC1Plus with regard to GEV classification criteria (03/2022) sections 3.2. has been demonstrated by means of an emission test. The emission limit values according to AGBB scheme 2018 version were verified and complied with via a test chamber test.</p>
<p>Compliance with the following emissions is confirmed for the product</p> <ul style="list-style-type: none"> less than 0.06 mg formaldehyde per m³ in the test chamber when tested in accordance with the conditions of Annex XVII of Regulation (EC) No 1907/2006 	<p>Requirements are fulfilled: Containing less than 0.06 mg formaldehyde per m³.</p> <p>Proof of equivalence to EMICODE EC1Plus with regard to GEV classification criteria (03/2022) sections 3.2. was verified by means of an emission test. The emission limit values according to AGBB scheme 2018 version were verified and complied with via a test chamber test.</p>

LEED v4 .1

LEED Credit - Low-Emitting Materials

The product contributes to meeting the requirements of LEED v4.1 *Credit Low-Emitting Materials*.

Evaluation result: LEED Credit fulfilled

Criteria requirement	Fulfillment of LEED manufacturer's declaration
<p>Adhesives and sealants At least 75% of all adhesives and sealants (by volume or surface area) meet the VOC emission rating AND 100% meet the VOC content rating.</p> <p>The adhesives and sealants product category includes all adhesives and sealants for interior use to be applied on the construction site using the wet process.</p>	<p>Requirements are fulfilled: Proof of equivalence to EMICODE EC1Plus with regard to GEV classification criteria (03/2022) sections 3.2. has been verified by means of an emissions test. The emission limit values according to AGBB scheme 2018 version were verified and complied with via a test chamber test.</p>

LEED Credit - Environmental Product Declarations

The product contributes to meeting the requirements of LEED v4.1 *Credit Environmental Product Declarations*.

Evaluation result: LEED Credit fulfilled

Criteria requirement	Fulfillment of LEED manufacturer declaration
<p>Option 1. Environmental Product Declaration (EPD)</p>	<p>Requirements are fulfilled: A product-specific EPD is available.</p>

BREEAM DE New Build 2018 & BREEAM International 2016

Hea 02 Quality of indoor air emissions from building products

The requirements of criterion *Hea 02 Quality of indoor air emissions from building products* in the BREEAM system are fulfilled.

Assessment result: BREEAM Mat 03 fulfilled

Criteria requirement	Fulfillment BREEAM Mat 03
Adhesives and sealants for indoor use (including flooring adhesives) Formaldehyde $\leq 0.06 \text{ mg/m}^3$ Total volatile organic compounds (TVOC) $\leq 1.0 \text{ mg/m}^3$ Carcinogenic substances of category 1A and 1B $\leq 0.001 \text{ mg/m}^3$	Requirements are fulfilled: Proof of equivalence to EMICODE EC1Plus with regard to GEV classification criteria (03/2022) Sections 3.2. has been verified via an emissions test. The emission limit values according to AGBB scheme 2018 version were verified and complied with via a test chamber test.

BREEAM DE New Build 2018 & BREEAM International 2016

Mat 03 Responsible material procurement - Responsible procurement of building products & basic requirement

Not relevant for consideration.

Legal information

Manufacturer contact details

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Note on use

This certificate is the evaluation and classification of products in terms of the DGNB, QNG, BNB, LEED and BREEAM certification systems. Certification bodies such as USGBC, DGNB or BREEAM do not certify products. Therefore, the project team or the manufacturer is responsible for demonstrating compliance with the certification criteria.

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