

# **StoFentra Guard**

# Sustainability

## Data for building certification systems

| Deutsche Gesellschaft für Nachhaltiges Bauen e.V. (German Sustainable Building Council, DGNB for short) |                |                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ENV1.2, Version 2018</b>                                                                             | Product group: | No. 43: Building products with flame-retardant properties (products)                                                                                                                                          |
|                                                                                                         | Quality level: | Meets quality level 4 – Chlorinated paraffins < 0.1 %, PBB < 0.1 %, PBDE < 0.1 %, and SVHCs [ $\leq$ ] 0.1 % (in accordance with the POP regulation and SVHCs from the REACH candidate list as well as LCCPs) |
| <b>ENV1.2, Version 2023</b>                                                                             | Product group: | No. 43: Building products with flame-retardant properties (products) -<br>a) Mains utilities insulants                                                                                                        |
|                                                                                                         | Quality level: | Meets quality level 4 – Chlorinated paraffins (SCCPs + MCCPs + LCCPs) < 0.1 %, PBB < 0.1 %, PBDE < 0.1 %, SVHC < 0.1 %, and antimony trioxide < 0.1 %                                                         |
| <b>ENV1.2, Version 2023</b>                                                                             | Product group: | no. 43b: building products with flame-retardant properties, interior                                                                                                                                          |
|                                                                                                         | Quality level: | meets quality level 4 – chlorinated paraffins (SCCPs + MCCPs + LCCPs) < 0.1 % and PBB < 0.1 %, (each individual substance)                                                                                    |

| Qualitätssiegel Nachhaltiges Gebäude (German Quality Label for Sustainable Building, QNG for short) |                |                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Annex document 313 dated 14 September 2023</b>                                                   | Product group: | No. 11.1: Plastics (PVC) for covering surfaces in interiors as well as plastic building elements on the building envelope                                                                                               |
|                                                                                                     | Quality level: | Met – No tin, cadmium, and lead stabilisers, phthalate plasticiser reproductive toxicity $\leq$ 0.10 %, wall coverings and coatings: Committee for Health-related Evaluation of Building Products scheme (AgBB Germany) |

| Bewertungssystem Nachhaltiges Bauen (German Assessment System for Sustainable Building, BNB for short) |                |                                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>BNB_BN 1.1.6, Version 2015</b>                                                                      | Product group: | No. 29: Building products made from PVC                                                                                                                               |
|                                                                                                        | Quality level: | Meets quality level 5 – No cadmium and lead stabilisers; the following applies for flexible PVC: phthalate plasticiser reproductive toxicity < 0.1 % (see Annex 2, E) |

| Leadership in Energy and Environmental Design (LEED v. 4.1) |                                         |
|-------------------------------------------------------------|-----------------------------------------|
| <b>VOC content (EQ Credit: Low-emitting materials)</b>      | 0 g/l<br>Met in accordance with LEED v4 |

#### Leadership in Energy and Environmental Design (LEED v. 4.1)

|                                                                                                     |              |                                  |
|-----------------------------------------------------------------------------------------------------|--------------|----------------------------------|
| <b>VOC emissions (EQ Credit: Low-emitting materials)</b>                                            | Requirement: | Not relevant as exterior product |
| <b>SVOC emissions (EQ Credit: Low-emitting materials)</b>                                           | Requirement: | Not relevant as exterior product |
| <b>Formaldehyde emissions (EQ Credit: Low-emitting materials)</b>                                   | Requirement: | Not relevant as exterior product |
| <b>Recycling percentage (post-consumer recycled content) (MR Credit: Sourcing of raw materials)</b> | 0 %          |                                  |
| <b>Recycling percentage (pre-consumer recycled content) (MR Credit: Sourcing of raw materials)</b>  | 0 %          |                                  |
| <b>Renewable raw materials (bio-based materials) (MR Credit: Sourcing of raw materials)</b>         | 0 %          |                                  |

#### Building Research Establishment Environmental Assessment Method (BREEAM)

|                                                            |                                        |                                  |
|------------------------------------------------------------|----------------------------------------|----------------------------------|
| <b>VOC content (EQ Credit: Low-emitting materials)</b>     | 0 g/l<br>Met in accordance with BREEAM |                                  |
| <b>VOC emissions (Hea 02: indoor air quality)</b>          | Requirement:                           | Not relevant as exterior product |
| <b>SVOC emissions (Hea 02: indoor air quality)</b>         | Requirement:                           | Not relevant as exterior product |
| <b>Formaldehyde emissions (Hea 02: indoor air quality)</b> | Requirement:                           | Not relevant as exterior product |
| <b>CMR emissions (Hea 02: indoor air quality)</b>          | Requirement:                           | Not relevant as exterior product |

## EU Taxonomy Regulation (EU) 2020/852

|                                                                                                               |                                                                                                                   |                                  |
|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Compliant with Annex C</b>                                                                                 | Met                                                                                                               |                                  |
| <b>Note</b>                                                                                                   | This statement is based on the formulation data of Sto SE & Co. KGaA and information from our upstream suppliers. |                                  |
| <b>Formaldehyde emissions</b>                                                                                 | Requirement:                                                                                                      | Not relevant as exterior product |
| <b>Other carcinogenic VOCs in categories 1A and 1B (CMR)</b>                                                  | Requirement:                                                                                                      | Not relevant as exterior product |
| <b>Compliant with minimum social requirements (human rights, German Supply Chain Due Diligence Act, etc.)</b> | <a href="https://www.sto.de/s/unternehmen/compliance">https://www.sto.de/s/unternehmen/compliance</a>             |                                  |

## Eco-labels and environmental labels

| Eco-label, certificates                                                          |                                                                                                                                                                                                                                                                                                                           |            |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| <b>ISO certification 9001, 14001, 50001</b>                                      | <a href="https://www.sto.de/s/unternehmen/managementsysteme">https://www.sto.de/s/unternehmen/managementsysteme</a>                                                                                                                                                                                                       |            |
| <b>Environmental Product Declaration (EPD)</b>                                   | EPD-Kiwa-EE-195189-EN                                                                                                                                                                                                                                                                                                     |            |
| <b>Note</b>                                                                      | Due to multiple-supplier sourcing, this EPD only applies to countries with the corresponding supply relationship. For countries with different or variable supply relationships, the CO2 value listed below is therefore provided for reference purposes only. For specific information, please contact the manufacturer. |            |
| <b>Product-specific working life (in accordance with BNB service life table)</b> | Years:                                                                                                                                                                                                                                                                                                                    | > 50 years |
|                                                                                  | Application range:                                                                                                                                                                                                                                                                                                        | exterior   |
| <b>Product-specific working life (in accordance with EPD)</b>                    | Years:                                                                                                                                                                                                                                                                                                                    | > 50 years |
|                                                                                  | Application range:                                                                                                                                                                                                                                                                                                        | exterior   |
| <b>GISCODE</b>                                                                   | See SDS (section 15)                                                                                                                                                                                                                                                                                                      |            |

## Product ingredients

|                                                                    |     |
|--------------------------------------------------------------------|-----|
| <b>Organic component (in accordance with natureplus / baubook)</b> | >5% |
|--------------------------------------------------------------------|-----|

|                                                                                                                                                                                                            |                                                                                               |                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Hazardous substances (in accordance with EU regulations)</b>                                                                                                                                            | Not determined                                                                                |                                     |
| <b>CMR substances (VOC)</b>                                                                                                                                                                                | Cannot be determined (limit of quantification: 1 mg/kg) (in accordance with DIN EN ISO 17895) |                                     |
| <b>VOC content (in accordance with Directive 2004/42/CE)</b>                                                                                                                                               | Not subject to the directive                                                                  |                                     |
| <b>Solvent (in accordance with VdL Directive 01)</b>                                                                                                                                                       | Content:                                                                                      | < 700 mg/kg<br>solvent-free         |
|                                                                                                                                                                                                            | Base:                                                                                         | According to formulation evaluation |
| <b>Plasticiser (in accordance with VdL Directive 01)</b>                                                                                                                                                   | Content:                                                                                      | < 500 mg/kg<br>Plasticiser-free     |
|                                                                                                                                                                                                            | Base:                                                                                         | According to formulation evaluation |
| <b>Free formaldehyde (in accordance with VdL Directive 01)</b>                                                                                                                                             | Content:                                                                                      | < 2 mg/kg<br>Formaldehyde-free      |
|                                                                                                                                                                                                            | Base:                                                                                         | According to formulation evaluation |
| <b>Biocide(s), active substance(s) for protection of the coating (in accordance with Regulation (EU) No 528/2012)</b>                                                                                      | Not present                                                                                   |                                     |
| <b>Biocide(s), active substance(s) for protection of the product during storage (in accordance with Regulation (EU) No 528/2012)</b>                                                                       | Not present                                                                                   |                                     |
| <b>Heavy metals</b>                                                                                                                                                                                        | Not assessed                                                                                  |                                     |
| <b>Compliant with the emissions restrictions of the titanium dioxide industry (in accordance with Directive 2010/75/EU and 25th Ordinance for the Implementation of the Federal Immission Control Act)</b> | Not applicable, as titanium dioxide is not present in the product                             |                                     |

|                                                                                         |          |                                     |
|-----------------------------------------------------------------------------------------|----------|-------------------------------------|
| <b>SVHC in accordance with the REACH chemicals regulation (EC/1907/2006), Annex XIV</b> | Content: | <0,1%                               |
|                                                                                         | Base:    | According to formulation evaluation |

## Carbon footprint

|                                                               |                                   |
|---------------------------------------------------------------|-----------------------------------|
| <b>A1-A3 (cradle to gate – manufacturing)</b>                 | 0.63 kg CO <sub>2</sub> e / lfm   |
| <b>A4 (transport from manufacturer to site)</b>               | 0.005 kg CO <sub>2</sub> e / lfm  |
| <b>A1-C4 (cradle to grave – life cycle)</b>                   | 0.701 kg CO <sub>2</sub> e / lfm  |
| <b>D (Benefits and loads beyond the system boundary)</b>      | -0.024 kg CO <sub>2</sub> e / lfm |
| <b>A1-D (cradle to cradle – life cycle including benefit)</b> | 0.677 kg CO <sub>2</sub> e / lfm  |

## Disposal, reuse, recycling

|                                                  |                                                                                                                               |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Recycling of site residue</b>                 | Correctly sorted, clean material can be recycled                                                                              |
| <b>Recycling of dismantled building material</b> | Can be recycled as building materials                                                                                         |
|                                                  | See Environmental Product Declaration (EPD)                                                                                   |
| <b>Recycling of packaging material</b>           | Can be reused or recycled                                                                                                     |
|                                                  | See <a href="https://www.sto.de/s/service-tools/entsorgung">https://www.sto.de/s/service-tools/entsorgung</a>                 |
| <b>Circular economy at Sto</b>                   | <a href="https://www.sto.de/s/nachhaltigkeit/kreislaufwirtschaft">https://www.sto.de/s/nachhaltigkeit/kreislaufwirtschaft</a> |

## Corporate responsibility at Sto

|                                                      |                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Guiding principles, management of the company</b> | Sto's vision is to be the technology leader in the sustainable design of living space tailored to human needs. Worldwide. For further information please visit: <a href="http://www.sto.com">www.sto.com</a>                                                                                                                     |
| <b>UN Global Compact - membership</b>                | Sto is a member of the UN Global Compact and is committed to upholding ten universally acknowledged principles taken from the areas of human rights, labour standards, environmental protection, and anti-corruption. For further information please visit: <a href="http://www.unglobalcompact.org">www.unglobalcompact.org</a> |

**Supplier code of conduct**

[https://www.sto.de/cepcom/de/Dokumente/Unternehmen/Lieferanten/Sto-Supplier-Code-of-Conduct\\_01\\_12-23-\(1\).pdf](https://www.sto.de/cepcom/de/Dokumente/Unternehmen/Lieferanten/Sto-Supplier-Code-of-Conduct_01_12-23-(1).pdf)

## Notes

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|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Version</b>          | 06                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Creation and use</b> | The information and data contained in this sustainability data sheet is based on our knowledge and experience. The publication of a new sustainability data sheet invalidates all previous versions. Please observe the information in the Technical Data Sheet and Safety Data Sheet. The latest version is available on the Internet. Formulations are subject to change! |

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