

# Sustainability Data Sheet

## Lotusan® G



### Facade paint with Lotus-Effect® Technology, with encapsulated film protection

For product description see Technical Data Sheet (if available)

#### Information for building certifications in accordance with DGNB

|                                                                                          |                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Quality level (ENV1.2, in accordance with the criteria matrix, DGNB System Version 2018) | no. 5: coating materials for mineral surfaces in exterior areas: meets quality level 4 - VOC content < 40 g/l (in accordance with Directive 2004/42/CE)                                                                                        |
| Quality level (ENV1.2, in accordance with the criteria matrix, DGNB System Version 2023) | no. 5: coating materials for mineral surfaces in exterior areas: meets quality level 4 – VOC content < 40 g/l (in accordance with Directive 2004/42/CE) / justify need to use film-protected products with UBA information sheets incorporated |
| Product-specific LCA values (ENV 1.1 and ENV 2.1)                                        | in accordance with EPD                                                                                                                                                                                                                         |
| Product-specific life cycle (ECO1.1)                                                     | 15 years in exterior application (in accordance with BNB)                                                                                                                                                                                      |
| Impact on acoustic comfort (SOC1.3)                                                      | not assessed                                                                                                                                                                                                                                   |
| Cleaning instructions (PRO1.5 and TEC1.5)                                                | see Technical Data Sheet                                                                                                                                                                                                                       |
| Easy to recycle building material selection (TEC1.6)                                     | can be reworked                                                                                                                                                                                                                                |

#### Information for building certifications in accordance with LEED

|                                                                                               |                                                                                                                    |
|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| VOC content (EQ Credit: Low-emitting materials)                                               | 28,2 g/l (without water) calculated according to the SCAQMD METHOD 304-91 (5.1)<br>Met in accordance with LEED v.4 |
| VOC and SVOC emissions (EQ Credit: Low-emitting materials)                                    | not relevant, as exterior product                                                                                  |
| Formaldehyde emissions                                                                        | not relevant, as exterior product                                                                                  |
| Recyclable percentage (post-consumer recycled content) (MR Credit: Sourcing of raw materials) | 0 %                                                                                                                |
| Recyclable percentage (pre-consumer recycled)                                                 | 0 %                                                                                                                |

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content) (MR Credit: Sourcing of raw materials)

Renewable raw materials (bio-based materials)  
(MR Credit: Sourcing of raw materials)

0 %

## Information for building certifications in accordance with BREEAM

Formaldehyde (Hea 02: indoor air quality)

not relevant, as exterior product

VOC content (Hea 02: indoor air quality)

see Safety Data Sheet (section 15)

VOC emissions (Hea 02: indoor air quality)

not relevant, as exterior product

SVOC emissions (Hea 02: indoor air quality)

not relevant, as exterior product

CMR substances (Hea 02: indoor air quality)

not relevant, as exterior product

## Eco-labels and environmental labels

Certificates, eco-label, environmental label

None

Environmental Product Declaration (EPD)



NEPD-14359-14759

GISCODE (in accordance with GISBAU)

BSW50

Safety Data Sheet (SDS)

available

Technical Data Sheet (TDS)

available

## Product ingredients

Composition

In accordance with the VdL directive (German Paint and Printing Ink Association) on coating materials for buildings

Polymer dispersion  
titanium dioxide  
silicate extenders  
organic extenders

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|                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                        | Water<br>Glycol ether<br>alcohols<br>Hydrophobic agents<br>Thickener<br>anti-foaming agents<br>dispersing agent<br>coating protection agent based on DCOIT/OIT<br>coating protection agent based on 3-Iodo-2-propynyl<br>butylcarbamate (IPBC)<br>storage protection agent based on 1,2-benzisothiazol-3-one (BIT)<br>storage protection agent based on bronopol (INN) |
| <b>Organic component (in accordance with natureplus, baubook)</b>                                                                                                                                      | > 5 %                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Hazardous substances (in accordance with EU regulations)</b>                                                                                                                                        | See Safety Data Sheet (section 3)                                                                                                                                                                                                                                                                                                                                      |
| <b>CMR substances (VOC)</b>                                                                                                                                                                            | present (in accordance with DIN EN ISO 17895)                                                                                                                                                                                                                                                                                                                          |
| <b>VOC content (in accordance with Directive 2004/42/CE)</b>                                                                                                                                           | see Safety Data Sheet (section 15)                                                                                                                                                                                                                                                                                                                                     |
| <b>Plasticiser</b>                                                                                                                                                                                     | plasticiser-free (materials in accordance with VdL guideline 01), (according to measurement)                                                                                                                                                                                                                                                                           |
| <b>Free formaldehyde</b>                                                                                                                                                                               | ≤ 100 mg/kg (MQuant® formaldehyde test according to VdL guideline 03)                                                                                                                                                                                                                                                                                                  |
| <b>Biocide(s), active substance(s) for protection of the coating (in accordance with Regulation (EU) No 528/2012)</b>                                                                                  | present, see Safety Data Sheet (section 2)                                                                                                                                                                                                                                                                                                                             |
| <b>Biocide(s), active substance(s) for protection of the product during storage (in accordance with Regulation (EU) No 528/2012)</b>                                                                   | present, see Safety Data Sheet (section 2)                                                                                                                                                                                                                                                                                                                             |
| <b>Heavy metals</b>                                                                                                                                                                                    | not assessed                                                                                                                                                                                                                                                                                                                                                           |
| <b>Compliance 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</b> | yes                                                                                                                                                                                                                                                                                                                                                                    |

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Act)

SVHC in accordance with the chemicals regulation REACH (EG/1907/2006), notes XIV

not present

### Emissions, CO2 balance sheet

Carbon dioxide value (manufacturing A1-A3) (cradle-to-gate)

1,22 kg CO2e / kg

Carbon dioxide value (life cycle A1-D)

1,34 kg CO2e / kg

Semi-volatile organic compounds SVOCs

see Environmental Product Declaration (EPD)

### Disposal, re-use, recycling

Disposal of residue

see Safety Data Sheet (section 13)

Disposal of dismantled building material

can be reworked,  
refer to EPD chapter 2.14 and 2.15

Packaging, pails, films

The return of used packaging and its correct recycling is organised and certified in accordance with the statutory requirements with a regional disposal company.

### Sto corporate responsibility

Guiding principles, management of the company

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: [www.sto.com](http://www.sto.com)

UN Global Compact - membership

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: [www.unglobalcompact.org](http://www.unglobalcompact.org)

ILO fundamental conventions

Sto has committed itself to adhering to the ILO fundamental conventions at all of its locations.

Quality management, environmental

Production location certified in accordance with DIN EN

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### management, energy management

9001, DIN EN 14001, and DIN EN 50001.

### Supplier code of conduct

The Sto Supplier Code of Conduct is based on the principles of the UN Global Compact and the Sto Guiding Principles. Suppliers must adhere to these and are continuously evaluated.

This document aims to help you better assess the sustainability of our products. We consider sustainability to be a complex process that involves bringing together economic, ecological, and social criteria in order to satisfy the needs of current and future generations. Our products aim to contribute to this, while also meeting the requirements placed on them with respect to well-being, quality, and functionality. We regard sustainability as a process of continuous improvement, not one with an end result. With this in mind, we have defined the following core statements for our products:

1. Sto products make a contribution to key aspects of sustainability: e.g. climate protection, building, energy, and resource efficiency, protection and durability, health, and well-being.
2. All of the raw materials used in Sto products fulfil the functions for their application and are optimised with respect to their impact on the environment - based on the latest technology.
3. Sto products are produced in an energy and resource-efficient manner; renewable raw materials are used when appropriate and acceptable from an ecological, economical, and social perspective.
4. Sto evaluates and promotes the potential to dispose of, reuse, and recycle its products, taking technological and economical feasibility into account.

It is not just down to us to determine how the sustainability of our products is interpreted and evaluated - your opinions and decisions also play a role. The information listed here, which has the environment and health as its main focus, aims to assist you in this regard.

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.

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