StoColor Lotusan® G

Sustainability

Data for building certification systems

Deutsche Gesellschaft für Nachhaltiges Bauen e.V. (German Sustainable Building Council, DGNB for short)		
ENV1.2, Version 2018	Product group:	No. 5: Coating materials for mineral surfaces in exteriors
	Quality level:	Meets quality level 4 – VOC content < 40 g/l (in accordance with Directive 2004/42/CE)
ENV1.2, Version 2023	Product group:	No. 5: Coating materials for mineral surfaces in exteriors
	Quality level:	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
ENV1.2, Version 2023	Product group:	no. 5: facade paints
	Quality level:	Contains biocide. for quality level 4, the need to use film-protected products must be justified by incorporating UBA information sheets

Qualitätssiegel Nachhaltiges Gebäude (German Quality Label for Sustainable Building, QNG for short)		
Annex document 313 dated 14 September 2023	Product group:	No. 5.2: Facade paints incl. primers
	Quality level:	Met – VOC ≤ 30.0 g/l (water-based formulation), biocidal substances declaration (if used), and lead compounds ≤ 0.10 %
Proposal for assignment: LCA calculation values for QNG Sustainable Building Certification	8.6 Facade paint silicone resin emulsion paint	

Bewertungssystem Nachhaltiges Bauen (German Assessment System for Sustainable Building, BNB for short)		
BNB_BN 1.1.6, Version 2015	Product group:	No. 6a: External wall paints incl. primers
	Quality level:	Meets quality level 3 – Water-based only: 20 g/l < VOC < 30 g/l and no pigments and driers based on lead, cadmium, and chromium (VI) compounds

Leadership in Energy and Environmental Design (LEED v. 4.1)	
VOC content (EQ Credit: Low-emitting materials)	17.4 g/l Calculated in accordance with the Decopaint Directive 2004/42/CE Met in accordance with LEED v.4

Leadership in Energy and Environmental Design (LEED v. 4.1)		
VOC emissions (EQ Credit: Low-emitting materials)	Requirement:	Not relevant as exterior product
SVOC emissions (EQ Credit: Low-emitting materials)	Requirement:	Not relevant as exterior product
Formaldehyde emissions (EQ Credit: Low-emitting materials)	Requirement:	Not relevant as exterior product
Recycling percentage (post-consumer recycled content) (MR Credit: Sourcing of raw materials)	0 %	
Recycling percentage (pre-consumer recycled content) (MR Credit: Sourcing of raw materials)	0 %	
Renewable raw materials (bio-based materials) (MR Credit: Sourcing of raw materials)	0 %	

Building Research Establishment Environmental Assessment Method (BREEAM)		
VOC content (EQ Credit: Low-emitting materials)	17.4 g/l Calculated in accordance with the Decopaint Directive 2004/42/CE Met in accordance with BREEAM	
VOC emissions (Hea 02: indoor air quality)	Requirement:	Not relevant as exterior product
SVOC emissions (Hea 02: indoor air quality)	Requirement:	Not relevant as exterior product
Formaldehyde emissions (Hea 02: indoor air quality)	Requirement:	Not relevant as exterior product
CMR emissions (Hea 02: indoor air quality)	Requirement:	Not relevant as exterior product

EU Taxonomy Regulation (EU) 2020/852		
Compliant with Annex C	Met	
Note	This statement is based on the formulation data of Sto SE & Co. KGaA and information from our upstream suppliers.	
Formaldehyde emissions	Requirement:	Not relevant as exterior product
Other carcinogenic VOCs in categories 1A and 1B (CMR)	Requirement:	Not relevant as exterior product
Compliant with minimum social requirements (human rights, German Supply Chain Due Diligence Act, etc.)	https://www.sto.de/s/unternehmen/compliance	

Eco-labels and environmental labels

Eco-label, certificates		
ISO certification 9001, 14001, 50001	https://www.sto.de/s/unternehmen/managementsysteme	
Environmental Product Declaration (EPD)	NEPD-14359-14759	
Product-specific working life (in accordance with BNB service life table)	Years:	20 years
	Application range:	exterior
Product-specific working life (in accordance with EPD)	Years:	25 years
	Application range:	exterior
GISCODE	See SDS (section 15)	

Product ingredients

Organic component (in accordance with natureplus / baubook)	>5%
Hazardous substances (in accordance with EU regulations)	See SDS (section 3)

CMR substances (VOC)	Cannot be determined (limit of quantification: 1 mg/kg) (in accordance with DIN EN ISO 17895)	
VOC content (in accordance with Directive 2004/42/CE)	17,4 g/l	
Solvent (in accordance with VdL Directive 01)	Content:	> 700 mg/kg Not solvent-free
	Base:	According to formulation evaluation
Plasticiser (in accordance with VdL Directive 01)	Content:	< 500 mg/kg Plasticiser-free
	Base:	According to formulation evaluation
Free formaldehyde (in accordance with VdL Directive 01)	Content:	< 2 mg/kg Formaldehyde-free
	Base:	According to formulation evaluation
Biocide(s), active substance(s) for protection of the coating (in accordance with Regulation (EU) No 528/2012)	Present, see SDS (section 2)	
Biocide(s), active substance(s) for protection of the product during storage (in accordance with Regulation (EU) No 528/2012)	Present, see SDS (section 2)	
Heavy metals	Not assessed	
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)	Yes	
SVHC in accordance with the REACH chemicals regulation (EC/1907/2006), Annex XIV	Content:	<0,1%
	Base:	According to formulation evaluation

Carbon footprint

A1-A3 (cradle to gate – manufacturing)	1.218 kg CO_2e / kg
A4 (transport from manufacturer to site)	0.009 kg CO_2e / kg
A1-C4 (cradle to grave – life cycle)	1.342 kg CO_2e / kg
D (Benefits and loads beyond the system boundary)	0 kg CO_2e / kg
A1-D (cradle to cradle – life cycle including benefit)	1.342 kg CO_2e / kg

Disposal, reuse, recycling

Recycling of site residue	Correctly sorted, clean material can be recycled
	See SDS (section 13)
Recycling of dismantled building material	Can be reworked
	See Environmental Product Declaration (EPD)
Recycling of packaging material	Can be reused or recycled
	See https://www.sto.de/s/service-tools/entsorgung
Circular economy at Sto	Https://www.sto.de/s/nachhaltigkeit/kreislaufwirtschaft

Corporate responsibility at Sto

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
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
Supplier code of conduct	Https://www.sto.de/cepcom/de/Dokumente/Unternehmen/Lieferanten/Sto-Supplier-Code-of-Conduct_01_12-23-(1).pdf

Notes

Version	14
Creation and use	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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