

# Sustainability Data Sheet



## StoColor Lotusan<sup>®</sup>

**Facade paint with Lotus-Effect<sup>®</sup> Technology, natural protection against algae and fungal attacks, without biocide film protection**

For product description see Technical Data Sheet (if available)

### Information for building certifications in accordance with DGNB (2012 version) [German Sustainable Building Council]

<b>Quality level (ENV 1.2)</b>	paints and coatings on mineral substrates (exterior): meets quality level 1 to 4 - water-dilutable with VOC content < 40 g/l (in accordance with Directive 2004/42/EC)
<b>Product-specific LCA values (ENV 1.1 and ENV 2.1)</b>	in accordance with the EPD
<b>Product-specific life cycle (ECO 1.1)</b>	20 years (in accordance with the BNB [German assessment system for sustainable building])
<b>Impact on acoustic comfort (SOC 1.3)</b>	not assessed
<b>Safety and risk of incidents (SOC 1.7)</b>	no negative impact, as product does not contain halogens
<b>Cleaning instructions (PRO 1.5, PRO 2.2)</b>	see Technical Data Sheet
<b>For natural stone: "no child or forced labour" (ENV 1.3)</b>	not applicable



### Information for building certifications in accordance with LEED (2009 version)

<b>Product group classification</b>	EQ4.2_Flat Topcoat
<b>Recycled content (post-consumer) (MR Credit 4)</b>	0 %
<b>Recycled content (pre-consumer) (MR Credit 4)</b>	0 %
<b>Rapidly renewable materials (MR Credit 6)</b>	0 %
<b>Certified wood (FSC or PEFC) (MR Credit 7)</b>	not applicable

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VOC content (IEQ Credit 4.1): Low-emitting materials – adhesives and sealants	not applicable
VOC content (IEQ Credit 4.2): Low-emitting materials – paints and coatings	53,3 g/l (less water)
VOC content (IEQ Credit 4.3): Low-emitting materials – flooring systems	not applicable
<b>Eco-labels and designations</b>	
<b>Certificates / eco-labels</b>	 <p>The Blue Angel for external wall insulation systems - RAL-UZ 140 Certificate No. 25660</p> <p>The Blue Angel for external wall insulation systems - RAL-UZ 140 Certificate No. 25661</p> <p>The Blue Angel for external wall insulation systems - RAL-UZ 140 Certificate No. 24770</p> <p>The Blue Angel for external wall insulation systems - RAL-UZ 140 Certificate No. 24769</p> <p>The Blue Angel for external wall insulation systems - RAL-UZ 140 Certificate No. 30378</p> <p>The Blue Angel for external wall insulation systems - RAL-UZ 140 Certificate No. 30379</p>
<b>Environmental Product Declaration (EPD)</b>	 <p>EPD-DIV-20140151-IBG1</p>
<b>GISCODE</b>	BSW20
<b>Safety Data Sheet (SDS)</b>	available
<b>Technical Data Sheet (TDS)</b>	available
<b>Product ingredients</b>	

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<b>Composition</b>	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 water glycol ether alcohols hydrophobic agents thickener anti-foaming agents dispersing agent storage protection agent based on BIT/MIT (1:1)
<b>Hazardous substances (in accordance with EU regulations)</b>	See Safety Data Sheet (section 3)
<b>Organic content (in accordance with natureplus / baubook)</b>	> 5 %
<b>Volatile organic compounds (CMR substances)</b>	cannot be detected (detection limit: 1 mg/kg) (in accordance with DIN EN ISO 17895)
<b>VOC content (in accordance with the Decopaint directive)</b>	25,2 g/l (1.7 %)
<b>Plasticiser content</b>	plasticiser-free (in accordance with the VdL directive 01 [German Paint and Printing Ink Association])
<b>Free formaldehyde</b>	≤ 10 mg/kg (in accordance with the VdL directive 03 [German Paint and Printing Ink Association] and RAL-UZ 102 eco-label)
<b>Biocide(s) / active substance(s) to protect the coating (in accordance with EU Regulation 528/2012)</b>	not present
<b>Biocide(s) / active substance(s) for storage protection (in accordance with EU Regulation 528/2012)</b>	included, see Safety Data Sheet (section 2), content below the limit values according to RAL-UZ-102 appendix 1
<b>Heavy metals</b>	not assessed

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<b>Compliance with the emissions restrictions of the titanium oxide industry (in accordance with directive 2010/75/EU and BImSchV 25 [German Federal Emission Protection Regulations])</b>	yes
<b>Halogenated organic compounds</b>	none
<b>Emissions</b>	
<b>Halogenated hydrocarbons</b>	cannot be detected (detection limit: 2 µg/m³) (in accordance with DIN EN ISO 16000-9 or DIN EN 16402)
<b>Formaldehyde</b>	cannot be detected (detection limit: 2 µg/m³) (in accordance with DIN EN ISO 16000-9 or Merckoquant formaldehyde test)
<b>Semi-volatile organic compounds SVOCs</b>	not assessed
<b>Disposal / re-use / recycling</b>	
<b>Re-use / recycling</b>	The product is neither reused nor recycled.
<b>Disposal</b>	See Safety Data Sheet (section 13)
<b>Packaging / pails / films</b>	The return of used packaging and its correct recycling is organised and certified in accordance with the statutory requirements with a regional disposal company.
<b>Sto corporate responsibility</b>	
<b>Sto Guiding Principles / Corporate Governance</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:

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	<a href="http://www.unglobalcompact.org">www.unglobalcompact.org</a>
<b>ILO fundamental conventions</b>	Sto has committed itself to adhering to the ILO fundamental conventions at all of its locations.
<b>Quality, environmental and energy management</b>	Production location certified in accordance with DIN EN 9001, DIN EN 14001, and DIN EN 50001.
<b>Supplier Code of Conduct</b>	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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## StoColor Lotusan®



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