

StoColor Lotusan®

Facade paint with Lotus-Effect® Technology, natural protection against algae and fungal attacks, without biocide film protection







Characteristics

Area of application

- exterior
- for paint coats with reduced adhesion of dirt particles on mineral and organic substrates
- not suitable for horizontal or sloping surfaces that are exposed to weathering, e.g. joint areas in masonry

Properties

- texture-retaining
- very high CO₂ and water vapour permeability
- reduced wettability with water
- also available with X-black Technology: heat shield against solar heating
- Lotus-Effect[®] Technology: reduced adhesion of dirt particles and self-cleaning when exposed to rain
- dirt runs off with the rain
- natural protection against algae and fungal attack
- without biocide film protection
- low-tension

Appearance

• matt

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Density	EN ISO 2811	1.4 - 1.6 g/cm ³	
Diffusion-equivalent air layer thickness	EN 1062 -3	0.01 m	V1 high
Water permeability rate w	EN 1062-1	< 0.05 kg/(m²h ^{0,5})	W3 low
Water vapour diffusion- equivalent air layer thickness µ	EN ISO 7783	50	average value
Gloss	EN 1062-1	Matt	G3
Dry layer thickness	EN 1062-1	220 µm	E3 > 100; ≤ 200
Grain size	EN 1062-1	< 100 µm	S1 fine



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The characteristic values stated are average values or approximate values. Due to the natural raw materials in our products, the stated values can vary slightly in the same delivery batch; this does not affect the suitability of the product for its intended use.

Substrate			
Requirements	The substrate must be firm, dry, clean, load- efflorescence and release agents. Damp or defects in the following coatings, e.g. bubble	not fully cured substrates	
Preparations	Check whether existing coatings are load-be or structurally weak coatings. Facade surfaces affected by an algae and fubefore overcoating. Depending on the level of 1 - 2 times with StoPrim Fungal. The use of StoColor Lotusan G is recommer affected by an algae and fungal attack and/or high rate of infestation caused by microorgan	ungal attack must be care of infestation, disinfect the nded for renovating surfac or for applications with an	fully cleaned dry surfaces es heavily
Application			
Application temperature	Lowest temperature of substrate/air: +5 °C Highest temperature of substrate/air: +30 °C	;	
Material preparation	Usage as an intermediate coat: dilute with max. 5 % water. Usage as a finish: dilute with max. 5 % water. Dilute with as little water as possible to achieve application consistency. Stir the material well before application. If applying the material by machine or pump, adjust the application consistency accordingly. Use only very little water to dilute intensely tinted material. Too much dilution impairs the properties of the material, e.g. with regard to application, hiding power, and colour shade intensity.		
Consumption	Type of application	Approx. consu	mption
	per paint coat	0.17 - 0.20	I/m²
	for 2 coats	0.34 - 0.40	l/m²
	Material consumption depends on the applic among other factors. The stated consumptio guide. If required, determine precise consum specific project.	n values are only to be us	ed as a
Coating build-up	Substrate coating: Mineral substrates must be primed, e.g. with Depending on requirements, prime organic, substrates with e.g. Sto-HydroGrund.		absorbent



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Intermediate coat: StoColor Lotusan®

Finish:

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Only a double paint coat gives an optimum water-repellent effect

Application

by paint brush, by roller, by airless sprayer

Low-overspray application with an airless sprayer:

Nozzle: 4/17 - 4/25 Pressure: 100 - 150 bar

Recommendation: Use a nozzle extension and a flexible whip hose.

Drying, curing, ready for next coat

Higher humidity, lower temperatures, and low air exchange prolong the curing and drying times.

During unfavourable weather conditions it is very important to apply suitable protective measures (e.g. protection against rain) to the work in progress and

freshly completed facades.

At +20 °C temperature (air and substrate) and 65 % relative air humidity: over-

coatable after approx. 8 hours.

Cleaning the tools

Clean tools with water immediately after use.

Notes, recommendations, special information, miscellaneous

The water-repellent effect can vary in strength depending on weathering and

colour shade.

The water-repellent effect is limited on oily/greasy dirt due to the reduced

wettability with water.

Delivery

Colour shade

white, limited tintability in accordance with the StoColor System

The effects of weather, moisture, UV radiation, and deposits can alter the surface of the coating. Changes in colour shade are possible. The change process is dynamic and influenced by climatic conditions and exposure. National regulations,

data sheets etc. apply.

Extender material breakdown:

Mechanical stress can damage the extenders in the material and lead to lighter

marks. This does not influence the product quality or functionality.

Colour accuracy:



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Different weather and project conditions influence colour shade accuracy and colour shade uniformity. Avoid the following conditions (a - d) in every case:

- a) uneven absorbency of the substrate
- b) different levels of substrate moisture over an area
- c) partly very different alkalinity and/or substances in the substrate
- d) direct sunlight with sharp, clear shadows on a still-damp coating

Washout of processing aids:

If water such as condensation, fog, or rain comes into contact with not fully dry coatings, processing aids may be released from the coating and build up on the surface. Whether the effect is strongly visible or not depends on the intensity of the colour shade. This does not influence the product quality. The effects disappear when the surface is exposed to further weathering.

Storage			
Storage conditions	Store tightly sealed in frost-free conditions. Protect from heat and direct sunlight.		
Storage life	The quality of the product in its original container is guaranteed until the maximum storage life has expired. The storage life information is included in the batch number on the container. Explanation of batch no.: digit 1 = last digit of the year, digits 2 + 3 = calendar week Example: 9450013223 - storage life ends week 45in 2019		
Certificates/approvals	ETA-12/0561	StoTherm Vario 7 (EPS and StoLevell FT) European Technical Approval	
	ETA-13/0901	StoTherm Mineral 5 (MW/MW-L and StoLevell FT) European Technical Approval	
	ETA-13/0581	StoTherm Mineral 8 (timber frame construction - MW-L and StoLevell Uni/StoLevell Novo, fixing: bonded) European Technical Approval	
	ETA-08/0303	StoTherm Wood 1 (timber frame construction - soft wood fibre and StoLevell Uni/StoLevell FT/StoLevell Novo, fixing: anchor-fixed) European Technical Approval	
	ETA-03/0037	StoTherm Vario 5 (EPS and StoLevell Beta) European Technical Approval	
	ETA-09/0288	StoTherm Classic [®] 5 MW/MW-L (StoArmat Classic plus) European Technical Approval	
	ETA-09/0267	StoTherm Resol European Technical Approval	
	ETA-09/0304	StoTherm Wood 2 (timber frame construction - soft wood fibre and StoLevell Uni/StoLevell FT, anchor/adhesive) European Technical Approval	
	Test report P 1977-1	Lotus-Effect [®] for facade paints Soiling behaviour	
	Test report P 5086-4	Lotusan [®] - carbon dioxide permeability Test of carbon dioxide permeability	



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Report - Lotus-Effect

Self-cleaning microstructured surfaces Professional journal

Product group	Facade paint
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 water
	glycol ether
	alcohols
	hydrophobic agents
	thickener
	anti-foaming agents
	dispersing agent
	storage protection agent based on BIT/MIT (1:1)
Safety	Observe the Safety Data Sheet!
	Safety instructions refer to the ready-to-use, unapplied product.
EUH210	Safety data sheet available on request.
EUH208	Contains 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.
	These are preservatives.

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Special notes

The information in this Technical Data Sheet serves to ensure the product's intended use, or its suitability for use, and is based on our findings and experience. Users are nevertheless responsible for establishing the product's suitability and

Applications not specifically mentioned in this Technical Data Sheet are permissible only after prior consultation. Where no approval is given, such applications are at the user's own risk. This applies in particular when the product is used in combination with other products.

When a new Technical Data Sheet is published, all previous Technical Data Sheets are no longer valid. The latest version is available on the Internet.

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