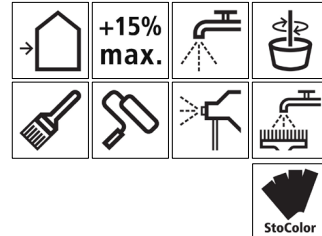


Technical Data Sheet

StoColor TropiClean Solar

Facade paint for tropical climate zones, with clean and cool effect



Characteristics

Area of application ■ For exterior use on mineral substrates and emulsion/silicone/silicate painted surfaces

Properties

- Water-dilutable, non-toxic and eco-friendly
- Reflects near-infrared components of sunlight
- Reduces the solar heating up of facade surfaces
- Protects against crack formation in the substrate
- Highly hydrophobic and permeable to water vapour
- Prevents dirt pick-up and dirt streaking
- Minimizes colour change or fading

Appearance

- Satin matt

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Criteria	Standard / test specification	Value/ Unit	Notes
Density	EN ISO 2811	1.37 – 1.47 g/cm ³	
Diffusion-equivalent air layer thickness S _d	EN ISO 7783-2	> 1.4 m	V3 low
Water permeability rate w	EN 1062-3	< 0.1 kg/(m ² h ^{0.5})	W3 low
Water vapour transmission	EN ISO 7783-2	< 15 g/(m ² 24hrs)	V3 low
Adhesion test	ASTM D3359	Passed	
Accelerated weathering	SS5:Part G4	No blistering, chalking, cracking	
Algal resistance	SS 345	Passed	
Alkaline resistance	SS 5: Part G2	Passed	
Water Absorption	S500: 2002(Annex A)	9.88 ml/m ² /day	
Thermal emittance	ASTM C1371-04a	»80%	
Solar reflectance	ASTM C 1549-04	> 0.75	

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 should be clean, dry and free from efflorescence and separating agents. Remove any loose paint and plaster coating.
New mineral plasters should be left to harden for at least 14 days.

Application

Application temperature

Lowest temperature of substrate / air : +8°C
Highest temperature of substrate / air: +45°C

Material preparation

StoColor TropiClean Solar is supplied ready to use but can be diluted up to 15% with clean water

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Consumption	Type of application (For 2 coats)	Approx. consumption
	Smooth substrate	0.20 – 0.23 lit/m ²
	Normal substrate	0.25 lit/m ²
	Coarse substrate	0.30 – 0.35 lit/m ²
Material consumption depends on the application, substrate, and consistency, among other factors. The stated consumption values are only to be used as a guide. If required, determine precise consumption values on the basis of the specific project.		
Coating build-up	1) Priming coat (if necessary): 2) Intermediate coat: 3) Top coat	
Application	1) Priming Coat (if necessary) Prime with StoPlex W. 2) Intermediate Coat StoColor TropiClean Solar, diluted by 15% with clean water. 3) Top Coat StoColor TropiClean Solar. No dilution	
Drying, curing, ready for next coat	Curing time : At 30°C Touch dry : approx. 2 hours Overcoat : approx.. 4 hours Drying time will be prolonged by low temperature and/or high humidity.	
Cleaning the tools	Tools must be cleaned immediately after use with cleaning water	
Notes, recommendations, special information, miscellaneous	Please consult the local sales office for further information and any site assistance required.	
Delivery		
Colour shade	White and selected colour, tintable in accordance with the StoColor System <u>Colour stability:</u> The effects of the weather, humidity, UV irradiation and deposits can lead to changes in the coating surface over time. This can result in colour changes. This is a dynamic process which varies according to climate conditions and the degree of exposure. The respective current national regulations, data sheets, etc. apply. <u>Filler break:</u> When coated surfaces are exposed to mechanical stress it is possible that, due to the natural calibration grains used for darker, more intense colour shades, the areas of impact change to a lighter colour. This does not affect the quality and functionality of the product. <u>Colour accuracy:</u> It is not possible to give any warranty for uniform colour accuracy and freedom from stains due to chemical and/or physical curing processes and fluctuations in the weather and different substrate conditions, especially in the case of: a) uneven absorption behaviour of the substrate b) different substrate moistures over the entire the surface c) partially very different alkalinity/substances from the substrate d) direct solar radiation with sharply delineated shadowing on the freshly applied coating.	

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Emulsifier washouts:

Due to conditions which delay drying, surface effects (streaking) can occur on coatings which are not yet fully-dried during initial stages of weathering caused by dew, mist, water spray or rain because of water-soluble additives.

Depending on the colour intensity, this effect can occur to varying degrees.

This does not constitute an impairment of product quality. These effects are normally removed automatically on further weathering.

Packaging	Article number	Name	Packing
	53000-253	StoColor TropiClean Solar, white	15 lit
	53000-255	StoColor TropiClean Solar, tinted	15 lit

Storage

Storage conditions Store in cool dry conditions; avoid direct sunlight.

Storage life

The quality of the material in its original container is guaranteed for the maximum stated storage life. The storage life information is included in the batch number on the container.

Batch number explanation:

Number 1 = the last number of year, numbers 2 + 3 = a week

i.e.: 1450013223 – stock date until the 45th week of the year 2021

Identification

Product group Facade Paint

Safety Please refer to Safety Data Sheet.

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 use.

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 www.sto-sea.com.

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*Product images may differ from the actual product.