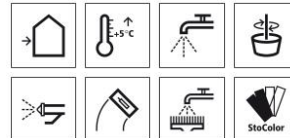


Technical Data Sheet

StoArmat Classic S1

Organic, cement-free reinforcing compound/base coat with large texturing grain, non-combustible in accordance with EN 13501, basalt-fibre-modified



Characteristics

Area of application

- exterior
- on mineral and organic substrates
- as a reinforcing compound/base coat for StoTherm Classic® S1
- as a reinforcing compound/base coat for StoVentec facades
- as a levelling filler
- as a renovation filler
- not suitable for horizontal or sloping surfaces that are exposed to weathering

Properties

- base coat in accordance with EN 15824
- basalt-fibre-modified
- cement-free
- reaction to fire: class A2-s1, d0 in accordance with EN 13501-1, non-combustible
- reaction to fire in the StoTherm Classic® S1 system: class A2-s1, d0 in accordance with EN 13501-1, non-combustible
- mineral extenders, basalt-modified
- very good application properties
- highly reliable application thanks to additional large texturing grain
- excellent application properties
- ready-to-use
- well suitable for machine application
- highly flexible
- resistant to cracking
- highly resistant to mechanical stress
- water vapour permeable
- highly weather-resistant
- no undercoat necessary
- good filling properties

Information/notes

- If necessary, apply a levelling coat made of mineral wool, e.g. areas of spalling. Levelling coat: apply StoLevell Uni in a layer thickness of approx. 3 mm or StoLevell Novo in a layer thickness of approx. 5 mm.
- crack extension: approx. 2 %

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- Impact resistance: > 15 joules are possible with appropriate system build-up.

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Density	EN ISO 2811	1.65 - 1.75 g/cm ³	
Diffusion-equivalent air layer thickness	EN ISO 7783	0.3 - 0.5 m	V2 medium
Water permeability rate w	EN 1062-1	< 0.05 kg/(m ² h ^{0.5})	W3 low
Water vapour diffusion-equivalent air layer thickness μ	EN ISO 7783	200 - 300	V2 medium
Reaction to fire (class)	DIN 13501-1	A2-s1, d0	
Thermal conductivity	DIN 4108	0.7 W/(m ² K)	

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

Substrate in general:

- Firm, level, dry, load-bearing
- Free of grease and dust
- Free from sinter layers, efflorescence, and release agents

Note:

- Check whether the fixing is suitable for the substrate.
- Damp or not fully cured substrates can lead to defects in the following coatings, e.g. bubble formation, cracks.

Preparations

1. Check the existing coating for its load-bearing capacity.
2. Remove any non load-bearing or structurally weak coatings.
3. Clean the substrate if necessary.

Application

Application temperature

substrate and air temperature
 minimum temperature: +5 °C
 Maximum temperature: +30 °C

Material preparation

- Stir the material well before application.
- The material is ready-to-use after stirring.
- Add water if necessary, in order to achieve the correct material consistency.

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Consumption	Type of application	Approx. consumption	
	as reinforcing compound on EPS foam boards	3.50 - 4.50	kg/m ²
	as reinforcing compound on mineral wool insulation boards	4.50 - 6.50	kg/m ²
	as levelling (fine filler)	1.50 - 2.00	kg/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.

Application	manually, by machine
	<p>A: use as a reinforcing compound on EPS insulation boards</p> <ol style="list-style-type: none"> 1) Apply the product by machine or manually using a rust-free steel trowel. 2. Fully embed the mesh in the upper half of the still-damp reinforcing coat. The mesh joints must overlap by 10 cm.
	<p>B: usage as reinforcing compound on mineral wool insulation boards</p> <ol style="list-style-type: none"> 1) Apply a thin layer of the product by machine or manually using a rust-free steel trowel, work it into the insulation board using the steel trowel, then trowel off at a sharp angle. 2) Leave it to dry. 3. Apply the product by machine or manually using a rust-free steel trowel. 4. Fully embed the mesh in the upper half of the still-damp reinforcing coat. The mesh joints must overlap by 10 cm.

Drying, curing, ready for next coat	The following factors delay the drying and cure times:
	<ul style="list-style-type: none"> -temperature -wind -relative humidity -unfavourable weather conditions -solar radiation -layer thickness <p>Protective measures:</p> <ol style="list-style-type: none"> 1. Take suitable protective measures. 2. Apply weather protection to any facade surface, which is to be treated or has just been completed. <p>Overcoating is possible after 2-3 days at the earliest under the following conditions:</p>

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-substrate and air temperature: +20 °C
 -relative humidity: 65 %

Reworking:

1. Use a straight-edged object to check whether the product is dry.

Example: Use a screwdriver to check whether the base coat is dry and can be overcoated with a finishing render.

Cleaning the tools Clean tools with water immediately after use.

Notes, recommendations, special information, miscellaneous -Further information is described in the application guidelines for the systems.

Delivery

Colour shade white, limited tintability in accordance with the StoColor System

Packaging pail

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: 1450013223 - storage life ends week 45 in 2021

Certificates/approvals

ETA-18/0582	StoTherm Classic® 8 (MW/MW-L and StoArmat Classic S1/StoLevell Classic + QS/Sto-RFP + QS/StoPrefa Armat) European Technical Assessment
ETA-12/0533	StoTherm Classic® 10 (MW/MW-L and StoArmat Classic S1) European Technical Assessment
ETA-13/0581	StoTherm Mineral 8 (timber frame construction - MW-L and StoLevell Uni/StoLevell Novo, fixing: bonded) European Technical Assessment
ETA-17/0406	StoVentec R European Technical Assessment

Identification

Product group Filler and reinforcing compound

Composition

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In accordance with the VdL directive (German Paint and Printing Ink Association)
 on coating materials for buildings
 polymer dispersion
 aluminium hydroxide
 silicate extenders
 mineral extenders
 water
 glycol ether
 dispersing agent
 hydrophobic agents
 thickener
 anti-foaming agents
 storage protection agent based on BIT/ZPT

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 1,2-benzisothiazol-3(2H)-one, reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one[EC no.247-500-7]and 2-methyl-2H-isothiazol-3-one[EC no.220-239-6] (3:1). May produce an allergic reaction.

These are preservatives.

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 the Internet.

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