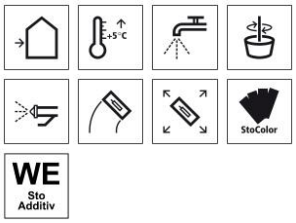
Technical Data Sheet
Stolit® MP

Organic finishing render as free-style textured render



Characteristics

Area of application	• exterior • on masonry, insulated and rainscreen cladding facades with a base coat • on mineral and organic substrates • not suitable for horizontal or sloping surfaces that are exposed to weathering
Properties	• render in accordance with EN 15824 • maximum reliability with regard to application, value retention, colour shade, and stability • A2-s1, d0 in accordance with EN 13501-1 • with encapsulated film protection • shockproof and highly resistant to cracks and hail when combined with StoTherm Classic® • highly permeable to water vapour • highly water-repellent • weather-resistant • water-dilutable • with high-quality marble grains made of natural deposits
Appearance	• as free-style textured render • as a float-finished, fine textured render
Information/notes	• see Services/Silo overview in the product guide or price list • if the selected colour shade has a light reflectance value ≥ 15, no additional finish is necessary • with float-finished, washed fine textured renders, a double paint coat may be necessary to equalise the colour shade

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Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Density	EN ISO 2811	1.7 - 1.9 g/cm³	
Diffusion-equivalent air layer thickness	EN ISO 7783	0.28 - 0.33 m	V2 medium
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	100 - 200	V2 medium
Reaction to fire (class)	EN 13501-1	A2-s1, d0	
Thermal conductivity	DIN 4108	0.7 W/(m*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

The substrate must be firm, dry, clean, load-bearing, and free from sinter layers, efflorescence and release agents. Damp or not fully cured substrates can lead to defects in the following coatings, e.g. bubble formation, cracks.

If using the product as a thin-layer, float-finished, fine textured render, it is necessary to apply additional levelling coats of substrate filler. For areas in external wall insulation systems with a change in material, e.g. a fire strip or fire flash-over protection, first fill these and then apply the base coat.

Layer thicknesses in the external wall insulation system:
- complete render system: at least 4 mm
- The base coat under the fine plaster finish should be thicker than 3.0 mm.
- Recommendation: Apply additional layers to level the base coat and prevent markings from the substrate.

Preparations

Check whether existing coatings are load-bearing. Remove any non load-bearing or structurally weak coatings.

Application

Application conditions

Do not apply the material in intense, direct sunlight or onto heated substrates.

Avoid strong air movements during application and during the first phase of drying, otherwise increased shrinkage cracks and pores may develop in the coating.

Application temperature

Lowest temperature of substrate and air: +5 °C
Highest temperature of substrate and air: +30 °C

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Material preparation

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. Do not dilute intensely tinted material, or only use very little water. 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. consumption	
thin layer	1.50	kg/m²
medium layer	2.50	kg/m²
thick layer	4.00	kg/m²

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

Primer:
Depending on the type and condition of the substrate, it may be necessary to apply consolidating, absorbency-regulating prime coatings.

Intermediate coat on load-bearing, mineral substrates:
If using on a mineral substrate, we recommend using an absorbency-equalising and adhesion-promoting intermediate coat.Note:If intermediate coats are omitted, this can impair the application properties and the product's appearance.
Products: Sto-Primer or StoPrep QS (alkalinity-isolating)

Intermediate coat on load-bearing, organic substrates:
Recommendation:If the colour shade of the finishing render differs significantly from the colour shade of the substrate, apply an intermediate coat that aligns the colour shades.If applying a finishing render with a rilled texture, always apply an intermediate coat that has a similar colour shade.
Products: Sto-Primer or StoPrep QS (alkalinity-isolating)

Application

manually, by machine

As a rule, it is necessary to manually rework the freshly applied finishing render in order to achieve the desired texture and functionality.

Apply the product evenly with a rust-free steel trowel. Layer thickness: min. 1 mm, in places max. 5 mm. Depending on the desired surface texture, use e.g. a plastering trowel, a brush, a texturing roller, a bucket trowel, a spatula, or a sponge for texturing. The product is float-finishable. On larger surfaces and depending on application conditions, skin formation is to be expected.

Recommendation for applying a float-finished fine textured render surface:
Step 1: Apply a finishing render with a stippled texture in 1.5 grain onto the

	prepared substrate using a rust-free steel trowel, and lightly trowel it off. Then evenly work superfluous render paste and texturing grains into the surface using a plastic trowel. Allow the surface to dry. Remove protruding grain tips using a wide spatula. Step 2: Using the free-style textured render as fine textured render: Apply the free-style textured render in an even layer approx. 1 mm thick. Briefly leave the surface to start to harden and then float-finish evenly with a latex sponge float. Regularly moisten the latex sponge float with water during the float-finishing, e.g. with a spray bottle. Float-finished or washed free-style textured render surfaces offer less protection from algae and fungus. In order to optimally protect the surface, apply a double paint coat, e.g. of StoColor Silco. The tools mentioned are recommendations only.
Drying, curing, ready for next coat	The product dries physically, in that water evaporates. Higher layer thicknesses (> 2 mm), higher substrate moisture and humidity, condensation, low temperatures, and low air exchange can prolong the drying time depending on the project. During unfavourable weather conditions, apply suitable protective measures (e.g. protection against rain) to any facade surface which is to be treated or which has been freshly completed. At drying conditions of approx. +20 °C air and substrate temperature, 65 % relative humidity, and depending on the subsequent coating (diffusion-equivalent air layer thickness), the product is over-coatable after 24 hours at the earliest.
Cleaning the tools	Clean tools with water immediately after use.
Notes, recommendations, special information, miscellaneous	Entrapped air can lead to blisters.Only model the render using dry tools.Danger of staining.
Delivery	
Colour shade	white, tintable in accordance with the StoColor System Colour stability: Weathering, intensity of UV radiation, and moisture penetration change the surface over time. Visible changes in colour shade are possible. This change process is influenced by material and project conditions. Recommendation: A build-up of additional paint coats improves the colour stability of intense and/or very dark colour shades.

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Texturing grain:
Natural white marble types are used as texturing grain. The natural graining of the marble can become partially visible and appear as darker texture grain in the finishing render.
With light clear (and especially clear yellow) colour shades, the colour of the texturing grain can shine through the finishing render across an area. In very rare cases, marble grain can cause isolated markings due to natural ingredients, e.g. pyrite.
Both effects are due to the basic appearance of a marble-filled finishing render and attest to the natural properties of the raw materials used. This is an inherent property.

Colour accuracy:
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.

Tintable	Possible to tint with max. 1 % StoTint Aqua.
Possible special options	There are no special settings for this product.
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 45in 2021

Certificates/approvals

ETA-05/0098	StoTherm Classic® 2 (EPS and StoLevell Classic/StoLevell Classic QS/Sto-RFP) European Technical Assessment
ETA-09/0058	StoTherm Classic® 5 (EPS and StoArmat Classic

	plus/StoArmat Classic plus QS) European Technical Assessment
ETA-09/0266	StoTherm Classic® 8 (EPS and StoArmat Classic/Classic plus) European Technical Approval
ETA-07/0088	StoTherm Classic® 2 (MW/MW-L and StoLevell Classic) European Technical Assessment
ETA-09/0288	StoTherm Classic® 5 (MW/MW-L and StoArmat Classic plus/StoArmat Classic plus QS) European Technical Assessment
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-05/0130	StoTherm Vario 1 (EPS and StoLevell Uni) European Technical Assessment
ETA-06/0045	StoTherm Vario 3 (EPS and StoLevell Novo) European Technical Assessment
ETA-06/0107	StoTherm Vario 4 (EPS and StoLevell Duo) European Technical Assessment
ETA-03/0037	StoTherm Vario 5 (EPS and StoLevell Beta) European Technical Assessment
ETA-12/0561	StoTherm Vario 7 (EPS and StoLevell FT) European Technical Assessment
ETA-19/0443	StoTherm Vario 8 (timber frame construction - EPS and StoLevell Duo/StoLevell Duo plus/StoLevell Uni/StoLevell Novo/StoLevell FT) European Technical Assessment
ETA-09/0231	StoTherm Mineral 1 (MW/MW-L and StoLevell Uni) European Technical Assessment
ETA-07/0027	StoTherm Mineral 3 (MW/MW-L and StoLevell Novo) European Technical Assessment
ETA-13/0901	StoTherm Mineral 5 (MW/MW-L and StoLevell FT) 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-08/0303	StoTherm Wood 1 (timber frame construction - soft wood fibre and StoLevell Uni/StoLevell FT/StoLevell Novo, fixing: anchor-fixed) European Technical Assessment
ETA-09/0304	StoTherm Wood 2 (timber frame construction - soft wood fibre and StoLevell Uni/StoLevell FT, anchor/adhesive) European Technical Assessment
ETA-06/0197	StoTherm Cell European Technical Assessment
ETA-09/0267	StoTherm Resol European Technical Assessment

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ETA-13/0580	StoTherm Resol Plus European Technical Approval
ETA-17/0041	StoTherm PIR European Technical Assessment
ETA-17/0406	StoVentec R European Technical Assessment

Identification

Product group Render

Composition

In accordance with the VdL directive (German Paint and Printing Ink Association)
on coating materials for buildings
polymer dispersion
titanium dioxide
mineral extenders
aluminium hydroxide
silicate extenders
water
aliphatics
glycol ether
hydrophobic agents
dispersing agent
thickener
wetting agents
coating protection agent based on OIT / diuron
storage protection agent based on BIT/ZPT
storage protection agent based on CIT/MIT 3:1

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 1,2-benzisothiazol-3(2H)-one, 2-octyl-2H-isothiazol-3-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.

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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 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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