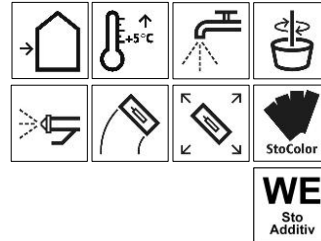


Technical Data Sheet

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 weather conditions

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

Technical Data

Criteria	Standard / test specification	Value/ Unit	Notes
Density	EN ISO 2811	1.7 - 1.9 g/cm ³	
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/(m ² h0,5)	W3 low
Water vapour diffusion-equivalent air layer thickness μ	EN ISO 7783	100 - 200	V2 medium
Reaction to fire	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.

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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

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/m ²
Medium layer	2.50 kg/m ²	
Thick layer	4.00 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.

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 (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 (alkalinity-isolating)

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Application	<p>Manually, by machine</p> <p>As a rule, it is necessary to manually rework the freshly applied finishing render in order to achieve the desired texture and functionality.</p> <p>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.</p> <p>The product is float-finishable. On larger surfaces and depending on application conditions, skin formation is to be expected.</p> <p>Recommendation for applying a float-finished fine textured render surface:</p> <p>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.</p> <p>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.</p> <p>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</p> <p>The tools mentioned are recommendations only.</p>
Drying, curing, ready for next coat	<p>The product dries physically, in that water evaporates.</p> <p>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.</p> <p>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.</p> <p>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.</p>
Cleaning the tools	<p>Tools must be cleaned immediately after use with cleaning water</p>
Notes, recommendations, special information, miscellaneous	<p>Entrapped air can lead to blisters. Only model the render using dry tools. Danger of staining.</p> <p>Please consult the local sales office for further information and any site assistance required.</p>
Delivery	
Colour shade	<p>White, tintable in accordance with the StoColor System</p> <p>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.</p> <p>Recommendation: A build-up of additional paint coats improves the colour stability of intense and/or very dark colour shades.</p>

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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	Article number	Name	Packing
	00183-006	Stolit® MP White	25 kg
	00183-007	Stolit® MP Tinted	25 kg
Storage			
Storage conditions	Store in cool dry conditions; avoid direct sunlight.		
Storage life	<p>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.</p> <p>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</p>		
Identification			
Product group	Render		
Safety	Please refer to Safety Data Sheet.		

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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 www.sto-sea.com.

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*Product images may differ from the actual product.