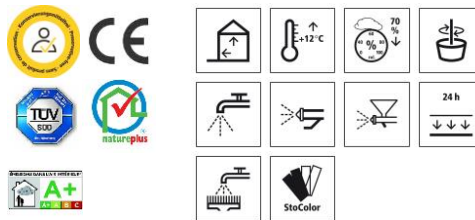


# Technical Data Sheet

## StoSilent Decor M

Preservative-free, porous, silicate acoustic coating



### Characteristics

**Area of application**

- interior
- as a finish for the StoSilent Direct, StoSilent Distance, StoSilent Modular 400, StoSilent Compact, and StoSilent Fleece acoustic systems

**Properties**

- porous
- solvent- and plasticiser-free
- low-emission
- TÜV seal of quality - externally monitored
- free from substances that contribute to "black dust" on walls
- eco-certified (natureplus®)
- fine graining
- preservative-free

**Appearance**

- matt
- textured surface

**Information/notes**

- porosity is produced by means of a special application technique

### Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Density	EN ISO 2811	1.2 - 1.4 g/cm <sup>3</sup>	
Water vapour diffusion-equivalent air layer thickness $\mu$	EN ISO 7783		V1 high
Reaction to fire (class)	EN 13501-1	A2-s1, d0	
Bond strength (28 days)	EN 1542	$\geq 0.3$ N/mm <sup>2</sup>	
PH value		11.0 - 12.0	
Light reflectance value		83	
Degree of whiteness		66 %	

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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-bearing, and free from sinter layers, efflorescence and release agents. Damp or not fully cured substrates can lead to defects in following layers, such as bubble formation or cracks. Do not use the product on damp or soiled substrates.

#### Preparations

##### StoSilent Compact Sil:

Prior to coating, check the intermediate coat for unevenness and touch up if necessary.

##### StoSilent Distance:

Board joints must be filled and sanded even. Check the surface to be coated. With the aid of a metal rod or glancing light, check if the surface is uneven or if seams are visible. If necessary, touch up these spots.

##### StoSilent Direct:

Board joints must be filled if there is a seamless design. For a seamless system build-up, prior to coating, check the intermediate coat for unevenness and seams, and touch up if necessary.

##### StoSilent Modular 400:

Board joints must be filled and sanded even.

##### StoSilent Fleece:

Prior to coating the nonwoven fabric, check the surface for unevenness and marks, and touch them up if necessary.

Due to the fineness of the coating, the substrate must be level and coatable. Use a metal rod or glancing light to check the ceiling for unevenness. Touch up any unevenness.

Cut open any bubbles in the glass-fibre nonwoven, recoat the board with adhesive, and press the nonwoven back on. Allow the repaired area to dry.

Note: there should be no adhesive on the underside of the nonwoven, since this can lead to light markings.

The joints between the glass-fibre nonwoven strips must neither gape nor overlap as these are not concealed by the finish.

### Application

#### Application temperature

Lowest substrate and application temperature: +12 °C at max. 70 % relative humidity.

#### Material preparation

Ready-to-use.

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If the product is applied with the Sto-Hopper Gun, add up to 3 % water.

Stir the material well before application.

Consumption	Type of application	Approx. consumption	
	for 2 application cycles (only StoSilent Compact Sil)	1.80	kg/m <sup>2</sup>
	for 3 application cycles (depending on the colour shade, a further application cycle may be necessary)	2.70	kg/m <sup>2</sup>
	for 4 application cycles	3.20	kg/m <sup>2</sup>

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

StoSilent Fleece:  
Intermediate coat 1:  
StoSilent Decor M  
Intermediate coat 2:  
StoSilent Decor M  
Finish:  
StoSilent Decor M

StoSilent Compact Sil acoustic system:  
Intermediate coat:  
StoSilent Decor M  
Finish:  
StoSilent Decor M

acoustic system StoSilent Distance or StoSilent Modular 400 with StoSilent Board 210, StoSilent Board 310, StoSilent Board 310 F

Intermediate coat 1:  
StoSilent Decor M  
Intermediate coat 2:  
StoSilent Decor M  
Finish:  
StoSilent Decor M

StoSilent Distance A2 or StoSilent Modular 400 with StoSilent Board 110 acoustic system

Intermediate coat 1:  
StoSilent Decor M  
Intermediate coat 2:  
StoSilent Decor M  
Intermediate coat 3:

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StoSilent Decor M  
 Finish:  
 StoSilent Decor M

StoSilent Direct acoustic system with StoSilent Board MW 100:

visible joints:  
 Intermediate coat 1:  
 StoSilent Decor M  
 Intermediate coat 2:  
 StoSilent Decor M  
 Finish:  
 StoSilent Decor M

seamless on StoSilent Top Basic:  
 finish 1:  
 StoSilent Decor M  
 finish 2:  
 StoSilent Decor M

Depending on the colour shade and substrate type, further material applications may be necessary.

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### Application

by machine, spray with a hopper gun

Spray on the material in several offset application cycles. Use more material for each application cycle.

For application, use a Peristaltic conveying pump (e.g. inoBEAM M8), a conveying pump with stator (e.g. Strobot 406 RS), or a Sto-Hopper Gun. Use a compressor with a suction capacity of at least 360 l/min to ensure sufficient air quantity (e.g. V-Meko 400). nozzle size: 4 - 6 mm, flow: 0 - 15 l/Min, air pressure: 1.5 - 2.5 bar.

Use a test surface to adjust the spray pattern by adapting the air quantity and conveying output. distance between the application device and coating surface. If necessary, carry out any additional measures (e.g. lower the scaffolding).

Start spraying on the material in the perimeter area and execute the movements parallel to the wall. Then apply the material to the surface using circular movements. Never hold the device at a single point during application, keep it continually moving.

Do not allow the material to run over the surface, as otherwise the acoustic porosity is not guaranteed and the surface appears patchy.

note on using machine technology:  
 If necessary, four application cycles are necessary, each with a reduced amount of material to ensure sound permeability.

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Leave the surface to dry for at least 24 hours. Sweep the surface with a clean hair broom.

If intense colour shades are used, it may be necessary to allow the surface to dry longer to avoid so-called cloud formation. Additional application cycles may be necessary depending on the colour shade. In order to balance out the colour of the substrate, decant 1 - 2 white or tinted layers.

If necessary, use a dehumidifier.

Observe the current application guidelines of the respective acoustic system.

renovation and cleaning:  
See the StoSilent Planning Manual or obtain information from our Sto Technical Consultant.

In glancing light the ceilings are not free from visible unevenness.

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#### Drying, curing, ready for next coat

fully dry: after approx. 24 hours  
High humidity and/or low temperatures prolong the drying time.

Reworking time:  
Wait at least 5 hours between the first and second application cycle (humidity: < 70 %, temperature: + +18 °C).  
Wait at least 12 hours between the second and third application cycle (humidity: < 70 %, temperature: +18 °C).

reworking time when using StoSilent Board 110:  
Wait at least 12 hours between the third and fourth application cycle (humidity: < 70 %, temperature: +18 °C).

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#### Cleaning the tools

Clean tools with water immediately after use.

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#### Notes, recommendations, special information, miscellaneous

Observe the general Sto application guidelines for StoSilent acoustic systems. They are available from Sto SE & Co. KGaA. Installation/coating must only be carried out after prior instruction.

Recommendation: installation on walls outside areas subject to a risk of impact, above a height of 2 m.

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#### Delivery

##### Colour shade

signal white (approx. RAL 9003), limited tintability in accordance with the StoColor System

If tinted versions are used, small amounts of preservatives can get into the

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material due to the pigments. A large number of preservative-free colour shades are available on request.

Colour shade differences between the batches are possible due to the use of natural raw materials. Only use products from the same batch over a single surface.

Colour accuracy:

Due to the chemical and physical setting processes at different project conditions, it is not possible to give any warranty for uniform colour accuracy and freedom from stains especially with regard to:

- a) uneven absorption of the substrate
- b) different substrate moisture levels
- c) partially very different alkalinity/substances in the substrate.

<b>Packaging</b>	pail
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#### Storage

<b>Storage conditions</b>	Store tightly sealed in frost-free conditions.
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<b>Storage life</b>	<p>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.</p> <p>Explanation of batch no.:</p> <p>digit 1 = last digit of the year, digits 2 + 3 = calendar week</p> <p>Example: 1450013223 - storage life ends week 45in 2021</p>
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#### Certificates/approvals

TÜV - Certificate No. TM-10/181130-5	StoSilent Decor M (low-emission, physiologically harmless, and production monitored) Analysis and assessment of emissions
Declaration of conformity No. 2014-04	Acoustic products formulation identity/name change Declaration of Conformity
natureplus® - Certificate 0602-0602-046-2	StoSilent Decor M Environment - Health - Features
M 10 0960/18 Page 2	StoSilent Direct - StoSilent Board MW 100, 66 mm - StoSilent Decor (visible joints) - build-up E-200 Determination of the sound absorption factor in accordance with EN ISO 354
M 10 0960/18 Page 4	StoSilent Direct - StoSilent Board MW 100, 46 mm - StoSilent Decor (visible joints) - build-up E-200 Determination of the sound absorption factor in accordance with EN ISO 354
M 10 0960/18 Page 6	StoSilent Direct - StoSilent Board MW 100, 66 mm - StoSilent Decor (visible joints) - build-up type A Determination of the sound absorption factor in accordance with EN ISO 354
M 10 0960/18 Page 8	StoSilent Direct - StoSilent Board MW 100, 46 mm - StoSilent Decor (visible joints) - build-up type A

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	Determination of the sound absorption factor in accordance with EN ISO 354
M 10 0960/18 Page 9	StoSilent Direct - StoSilent Board MW 100, 66 mm + renovation - StoSilent Decor - build-up type A Determination of the sound absorption factor in accordance with EN ISO 354
M 10 0960/18 Page 10	StoSilent Direct - StoSilent Board MW 100, 46 mm + renovation - StoSilent Decor - build-up type A Determination of the sound absorption factor in accordance with EN ISO 354
M 10 0960/24 Page 2	StoSilent Direct - StoSilent Board MW 100, 36 mm - StoSilent Decor (visible joints) - build-up type E-200 Determination of the sound absorption factor in accordance with EN ISO 354
M 10 0960/24 Page 5	StoSilent Direct - StoSilent Board MW 100, 36 mm - StoSilent Decor (visible joints) - build-up type A Determination of the sound absorption factor in accordance with EN ISO 354
M 10 0960/25 Page 4	StoSilent Distance A2 - StoSilent Board 100 + Renovation - StoSilent Top Basic & Finish - + Decor M (Renovation) build-up E-200 Determination of the sound absorption factor in accordance with EN ISO 354

### Identification

**Product group** Acoustic coating

### Composition

comprehensive declaration in accordance with the "natureplus<sup>®</sup>" procurement directive  
 inorganic binding agent  
 polymer dispersion  
 titanium dioxide  
 mineral extenders  
 silicate extenders  
 water  
 thickener  
 surface additive  
 stabilisers  
 dispersing agent  
 pH-regulating agents

### Safety

Observe the Safety Data Sheet!  
 Safety instructions refer to the ready-to-use, unapplied product.

If tinted versions are used, small amounts of preservatives can get into the

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material due to the pigments.

### 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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