

# Technical Data Sheet

## StoSilent Top Basic

Organic, porous substrate coating for StoSilent acoustic systems



### Characteristics

- Area of application**
- interior
  - as a priming coat for the StoSilent Direct, StoSilent Distance, and StoSilent Modular 400 acoustic systems
  - can also be used as a finish if applied in 2 layers
  - in the StoSilent Direct system, seamless coated and with low visual quality requirements, if applied with a 6 mm notched trowel can also be used as a single layer

- Properties**
- porous
  - fine graining

- Appearance**
- matt
  - smooth 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	1.3 - 1.5 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	
PH value		9.3	
Light reflectance value		71	
Degree of whiteness		49 %	

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

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**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 subsequent coats, such as blisters or cracks. Do not use the product on damp or soiled substrates.

**Preparations**

**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 the design is seamless. If the system build-up is seamless, check the intermediate coat for unevenness and seams and touch up if necessary. Only then apply the finish.

**StoSilent Modular 400:**  
Board joints must be filled and sanded even.

### Application

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

**Material preparation** The product is ready-to-use. Dilute the product with max. 5 % water. When using StoSilent Top Basic white and StoSilent Top Basic tinted, less water needs to be added to achieve application consistency than for untinted material. Stir the material well before application.

Consumption	Type of application	Approx. consumption	
	as intermediate coat	1.50 - 3.00	kg/m <sup>2</sup>
as finish	2.50 - 3.00	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**

**Substrate:**  
StoSilent Distance and StoSilent Modular 400:  
Compression-proof, metal sub-construction in accordance with EN 13964 with vernier hangers, U-shaped hangers, and direct hangers. Fine grid covered with StoSilent Profile Tape (optional with StoSilent Modular 400).

**StoSilent Direct:**  
load-bearing, airtight, even

**Acoustic carrier board:**

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StoSilent Board 100, StoSilent Board 200, StoSilent Board 300, StoSilent Board MW 100

System adhesive:  
StoSilent Distance: StoSilent Fix  
StoSilent Direct: StoSilent Coll MW

Intermediate coat:  
StoSilent Top Basic

Finish:  
StoSilent Top Finish or StoSilent Top Basic

### Application

manually, by machine, spray with a hopper gun

#### Step 1:

##### Manually:

Apply StoSilent Top Basic to the acoustic carrier boards with the Sto-Swiss Smoothing Trowel Notched (4 x 4) starting at the edge and working transversely to the main light incidence direction.

It is vital that enough material is applied during this work step. At this stage, appearance is of secondary importance.

##### By machine:

For the low pressure method of application by machine, 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).

#### Work step 2:

comb off the fresh layer with the Sto-Swiss Smoothing Trowel Notched (4 x 4) in a criss-cross pattern. The first notching runs transversely to the main light incidence direction, the second notching runs parallel.

#### Notching 1:

press the finishing trowel strongly and uniformly at an angle of approx. 30° - ideally until scraping is heard.

Do not comb off the material in the edge zone (approx. 3 cm in width), in order to later smooth the visually flawless coating.

#### Notching 2:

comb off the layer with the Sto-Swiss Smoothing Trowel Notched (4 x 4) parallel to the main light incidence direction.

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Applying uniform pressure, smooth the coating using a Sto rust-free finishing spatula, holding it at an angle of approx. 10°. When smoothing, trowel off as little material as possible.

Smooth first the edge zones and then the entire surface. Ensure that no trowel grooves are still visible.  
To conclude deburr the entire surface. If the StoSilent Profile AP 210 stop profile is used, use it as a smoothing ridge (only applies to StoSilent Top Basic as an intermediate coat).

**StoSilent Top Basic as an intermediate coat:**  
After the drying time (36 or 48 hours) has ended, remove any protruding material and ridges with caution. Do not sand StoSilent Top Basic fully-faced. The quality of the intermediate coat is vital for the quality of the finish.

**StoSilent Top Basic as a finish:**  
To conclude smooth the surface. When the surface becomes matt, start smoothing the coating (depending on the ambient room temperature and humidity after approx. 15 - 45 minutes). First smooth the edge zone with the special plastic Sto-Finishing Trowel Profi (1 mm).  
Then smooth the entire surface starting from the edge zone with the Sto-Special Smoothing Trowel.  
Observe the current application guidelines of the respective acoustic system.

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

renovation and cleaning:  
See the StoSilent Planning Manual or obtain information from a Sto technical consultant.

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<b>Drying, curing, ready for next coat</b>	High humidity, low temperature and reduced air exchange prolong the drying time. fully dry: StoSilent Top Basic natural: after approx 36 hours StoSilent Top Basic white: after approx. 48 hours StoSilent Top Basic tinted: after approx. 48 hours
<b>Cleaning the tools</b>	Clean tools with water immediately after use.
<b>Notes, recommendations, special information, miscellaneous</b>	Observe the general Sto application guidelines for StoSilent acoustic systems. They are available from Sto SE & Co. KGaA. Only install and/or coat the product after training.  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** white (ca. RAL 9001), limited tintability in accordance with the StoColor System

**Colour accuracy:**

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

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.

**Note:**

Tinted product versions contain small amounts of solvent due to the pigment pastes.

**Packaging** pail

### Storage

**Storage conditions** Store tightly sealed in frost-free conditions.

**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

Declaration of conformity No. 2014-04	Acoustic products formulation identity/name change Declaration of Conformity
M 10 0960/18 Page 1	StoSilent Direct - StoSilent Board MW 100, 66 mm - StoSilent Top Basic & Top Finish - build-up E-200 Determination of the sound absorption factor in accordance with EN ISO 354
M 10 0960/18 Page 3	StoSilent Direct - StoSilent Board MW 100, 46 mm - StoSilent Top Basic & Top Finish - build-up E-200 Determination of the sound absorption factor in accordance with EN ISO 354
M 10 0960/18 Page 5	StoSilent Direct - StoSilent Board MW 100, 66 mm - StoSilent Top Basic & Top Finish - build-up type A Determination of the sound absorption factor in accordance with EN ISO 354
M 10 0960/18 Page 7	StoSilent Direct - StoSilent Board MW 100, 46 mm - StoSilent Top Basic & Top Finish - build-up type A Determination of the sound absorption factor in accordance with EN ISO 354

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M 10 0960/24 Page 3	StoSilent Direct - StoSilent Board MW 100, 36 mm - StoSilent Top Basic & Top Finish - build-up type E-200 Determination of the sound absorption factor in accordance with EN ISO 354
M 10 0960/24 Page 4	StoSilent Direct - StoSilent Board MW 100, 36 mm - StoSilent Top Basic & Top Basic white - build-up E-200 Determination of the sound absorption factor in accordance with EN ISO 354
M 10 0960/24 Page 6	StoSilent Direct - StoSilent Board MW 100, 36 mm - StoSilent Top Basic & Top Finish - build-up type A Determination of the sound absorption factor in accordance with EN ISO 354
M 10 0960/24 Page 8	StoSilent Direct - StoSilent Board MW 100, 36 mm - StoSilent Top Basic & Top Basic white - build-up type A Determination of the sound absorption factor in accordance with EN ISO 354
M 10 0960/24 Page 9	StoSilent Direct - StoSilent Board MW 100, 36 mm - without finish (visible joints) - build-up type A Determination of the sound absorption factor in accordance with EN ISO 354
M 10 0960/25 Page 2	StoSilent Distance A2 - StoSilent Board 100 - StoSilent Top Basic & Finish, tinted black - build-up E-200 Determination of the sound absorption factor in accordance with EN ISO 354
M 10 0960/25 Page 3	StoSilent Distance A2 - StoSilent Board 100 + Renovation - StoSilent Top Basic & Finish (removed and reapplied) - build-up E-200 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

In accordance with the VdL directive (German Paint and Printing Ink Association) on coating materials for buildings  
 polymer dispersion  
 mineral extenders  
 silicate extenders  
 water  
 surface additive  
 thickener  
 dispersing agent

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pH-regulating agents  
 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, 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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