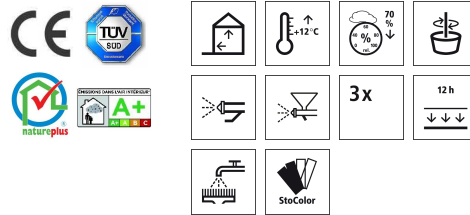


Technical Data Sheet

StoSilent Decor M

Porous silicate acoustic coating



Characteristics

- Area of application**
- interior
 - as finish for Sto acoustic panel systems
 - onto ceiling and wall surface areas which are not subject to mechanical stress
 - sprayed onto StoSilent Board 110, StoSilent Board 210, StoSilent Board 310, StoSilent Board 310 F, and onto ceilings faced with StoSilent Fleece

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®)

Appearance

- matt in accordance with EN 13300
- textured surface

Information/notes

- the porosity is achieved by means of the special application technique

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Density	EN ISO 2811	1.2 - 1.4 g/cm ³	
Water vapour diffusion-equivalent air layer thickness μ	EN ISO 7783-2		V1 high
Reaction to fire (class)	EN 13501-1	A2-s1, d0	non-combustible
PH value		11.0 - 12.0	
Light reflectance value		83	
Degree of whiteness		66 %	
Bond strength on concrete	EN 1542	≥ 0.3 N/mm ²	

Technical Data Sheet

StoSilent Decor M

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. Therefore do not apply onto damp or soiled substrates.

Preparations

Acoustic panel systems:
StoSilent Board 110, StoSilent Board 210, StoSilent Board 310, and StoSilent Board 310 F acoustic panel systems:

Inspect the surface to be coated:
Check if the surface is uneven and if seams are visible by using a metal rod or glancing light; touch these spots up if necessary.
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 if the ceiling is uneven
Cut open any bubbles in the glass-fibre nonwoven, recoat the board with adhesive and press the nonwoven back on. Allow the corrected area to dry.

There must be no adhesive on the underside of the nonwoven fabric (caution! - light marks).

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 application and substrate temperature: +12 °C at max. 70 % relative air humidity; installation after adjusting the equilibrium humidity in the room.

Material preparation

Ready-to-use

Consumption

Type of application	Approx. consumption	
for 3 application cycles (depending on the colour shade, a further application cycle may be necessary)	2.70	kg/m ²
for 4 application cycles	3.20	kg/m ²

Material consumption depends on the application, substrate, and consistency,

Technical Data Sheet

StoSilent Decor M

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

Load-bearing acoustic system StoSilent Board 210, StoSilent Board 310, StoSilent Board 310 F, and StoSilent Fleece

Intermediate coat 1:
StoSilent Decor M

Intermediate coat 2:
StoSilent Decor M

Finish:
StoSilent Decor M

Load-bearing acoustic system StoSilent Board 110

Intermediate coat 1:
StoSilent Decor M

Intermediate coat 2:
StoSilent Decor M

Intermediate coat 3:
StoSilent Decor M

Finish:
StoSilent Decor M

Depending on the colour shade and type of the substrate, further coats may be necessary.

Application

by machine, Spray with a hopper gun

StoSilent Board 210, StoSilent Board 310, StoSilent Board 310 F, and StoSilent Fleece:

Spray with increasing amounts of material in at least 3 staggered application cycles (application cycle 1 approx. 700 g/m²)

Use a compressor with an air output of 400 - 600 l/min for a sufficient air quantity. To achieve a spray pattern that is as fine as possible, use the Sto-Hopper Gun with 6 mm nozzle or use a screw pump with Vario drive (output of 0 - 5 l/min.) and a fine spraying set and 6 mm nozzle, e.g. Inomat M8.

Check air quantity and consistency by test spraying the material onto paper or paperboard. The spray distance between the device and the surface to be coated is 50 - 70 cm when working with a hopper gun, or 70 - 90 cm when working with a

Technical Data Sheet

StoSilent Decor M

screw pump. If necessary, take additional measures (lower the scaffolding, etc.).

Between sprinkling application 1 and 2, observe min. 5 hours of drying time (at less than 70 % air humidity and a temperature of +18 °C).

Between spray application 2 and 3, observe min. 12 hours of drying time (at less than 70 % air humidity and a temperature of +18 °C).

StoSilent Board 110:

Between spray application 3 and 4, observe min. 12 hours of drying time (at less than 70 % air humidity and a temperature of +18 °C).

When used as coating on flow-proof boards, drying can take longer.

For intense colour shades, drying can take longer than expected, otherwise there is a risk of a mottled appearance. Additional spray application layers may be necessary depending on the colour shade. Apply 1 - 2 layers in white to level the substrate.

The use of dehumidifiers is recommended if necessary.

Always work in circular movements when sprinkling, never remain at one spot.

The material must not run over the surface, as otherwise the acoustic transparency is not guaranteed and the surface becomes patchy due to the spots where the material ran down.

Dose the material for each spray application.

After thorough through-drying (min. 48 hours), sweep the surface with a clean hair broom.

When using machinery equipment, it may be necessary to plan a 4th application cycle and use reduced amounts of material per application cycle to maintain sound permeability.

Reworking:

When renovating a Sto acoustic ceiling that has been coated with this product, use the same material to spray 1 or 2 layers on top in a criss-cross pattern.

First, suction off dust deposits with an industrial vacuum cleaner with a brush attachment.

The ceilings are not 100 % free from the effects of glancing light.

Drying, curing, ready for next coat High humidity and/or low temperatures prolong drying.

Cleaning the tools Clean tools with water immediately after use.

Notes, recommendations, Observe the general Sto application guidelines for StoSilent acoustic systems.



Technical Data Sheet

StoSilent Decor M

special information, miscellaneous

They are available from Sto SE & Co. KGaA.
Installation/coating must only be carried out after prior instruction.

Delivery

Colour shade	<p>signal white (approx. RAL 9003), limited tintability in accordance with the StoColor System</p> <p>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:</p> <ul style="list-style-type: none"> a) uneven absorption of the substrate b) different substrate moisture levels c) partially very different alkalinity/substances in the substrate. <p>Note: If the material is tinted, the pigment paste adds small amounts of solvent to the product.</p>
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Packaging	Pail
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Storage

Storage conditions	Store tightly sealed in frost-free conditions.
Storage life	<p>The quality of the product in its original container is guaranteed until the maximum storage life has expired. The storage life date can be deduced from the batch number of the container.</p> <p>Batch number explanation: Number 1 = the last number of year, numbers 2 + 3 = a calendar week i.e.: 8450013223 – storage life until week 45 of the year 2018</p>

Certificates/approvals

Declaration of conformity No. 2014-04	Acoustic products formulation identity/name change Certificate of conformity
TÜV - Certificate No. TM-10/160502-1	StoSilent Decor M (low-emission, physiologically harmless, and production monitored) Assessing emissions
natureplus® - Certificate 0602-0602-046-2	StoSilent Decor M Environment - Health - Features
M 10 0960/18 Page 2	StoSilent Distance A2 - StoSilent Board MW100, 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 Distance A2 - StoSilent Board MW100, 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 Distance A2 - StoSilent Board MW100, 66 mm - StoSilent Decor (visible joints) - build-up type A Determination of the sound absorption factor in accordance

Technical Data Sheet

StoSilent Decor M

	with EN ISO 354
M 10 0960/18 Page 8	StoSilent Distance A2 - StoSilent Board MW100, 46 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 9	StoSilent Direct - StoSilent Board MW100, 66 mm + renovation - StoSil. Decor (vis. joints) + Decor (renov.) - 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 MW100, 46 mm + renovation - StoSil. Decor (vis. joints) + Decor (renov.) - Build-up type A 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[®]" procurement directive, mineral extenders, water, potassium silicate, barium sulphate, titanium dioxide, polymer dispersion, silicate extenders, thickener, wetting agents, stabilisers, dispersing agent

Safety

Observe the Safety Data Sheet!

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.

Technical Data Sheet

StoSilent Decor M

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