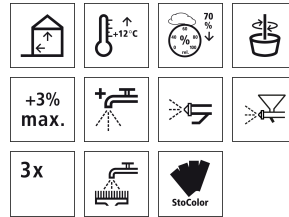


Technical data sheet

StoSilent Decor MF

Organic, sound-permeable acoustic coating



Characteristics

- Areas of application**
- interior
 - onto ceiling and wall surface areas which are not subjected to mechanical impacts
 - sprinkled onto ceilings laminated with StoSilent Fleece, and StoSilent Sil AP
 - as tinted finish for StoSilent Decor M

- Properties**
- sound-permeable decorative coating

- Appearance**
- matt in accordance with EN 13300
 - rough surface

- Information/notes**
- sound permeability is achieved by means of the special application technique

Technical data

Criterion	Standard / test regulation	Value/ Unit	Notes
Density	EN ISO 2811	1.1 - 1.3 g/cm ³	
Water vapour diffusion resistance factor μ	EN ISO 7783-2		V1 high
Water absorption (class)	EN 1062 -3		NPD
Reaction to fire (class)	EN 13501-1	A2-s1, d0	non-combustible
PH value		8.0 - 9.0	

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Light reflectance value		82
Degree of whiteness		62 %
Tensile strength on concrete	EN 1542	≥ 0.3 N/mm ²

The characteristic values stated are average values or approx. values. We use natural raw materials in our products, which means that 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, and load-bearing, as well as free from sinter layers, efflorescence and release agents. Damp or not fully cured substrates can lead to defects in subsequent layers, such as blistering or cracks. Therefore do not apply onto damp or soiled substrates.

Preparations

StoSilent Sil AP:

Prior to coating of fine coat, check the surface for unevenness and seams, and touch them up if necessary.

StoSilent Fleece:

Inspect the surface to be coated:

Prior to coating of the fleece, 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.

Check if the ceiling is uneven by means of a metal bar or glancing light

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 fleece (caution! - light marks).

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

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.

Rapid shock-type heating or cooling during installation and drying can induce crack formation.

Material preparation

Ready-to-use

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Consumption	Type of application	Approx. consumption	
	3 application cycles for StoSilent Fleece	2.70	kg/m ²
	application cycle 1 for StoSilent Sil AP	0.70	kg/m ²
	application cycle 2 for StoSilent Sil AP	1.10	kg/m ²
	2 application cycles for StoSilent Decor M	1.30	kg/m ²

Material consumption depends on, among other factors, the application, substrate and consistency. The stated consumption values are only to be used as a guide. If required, precise consumption values should be determined on the basis of the specific project.

Coating procedure	StoSilent Fleece:
	Intermediate coat 1: StoSilent Decor MF
	Intermediate coat 2: StoSilent Decor MF
	Finish: StoSilent Decor MF
	StoSilent Sil AP:
	Intermediate coat: StoSilent Decor MF
	Finish: StoSilent Decor MF
	Depending on the colour shade and type of the substrate, further coats may be necessary.

Application	by machine, spray with the hopper gun
	StoSilent Fleece:
	Sprinkle with increasing amounts of material in at least 3 offset application cycles (1st application cycle approx. 700 g/m ²)

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

Check air volume and consistency by test sprinkling the material onto paper or paper board. The distance between the sprinkling device and the surface to be coated must measure 50 - 70 cm when working with a hopper gun, or 70 - 90 cm when working with a rotor and stator pump. If necessary, take additional measures (lower 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 Sil AP:

After 1-2 days spray the material onto the above-mentioned plaster surface using a fine spraying set. Work in 2 offset application cycles with increasing amounts of material using the hopper gun or rotor and stator pump (application cycle 1 approx. 700 g/m²). (First application cycle approx. 700 g/m²). Between the spray applications, observe min. 5 hours of drying time (at less than 70 % air humidity and a temperature of +18 °C).

In case of intense colour shades, drying can take longer than expected. Otherwise there is a risk of "cloud formation". Additional spray application layers may be necessary depending on the colour shade. Apply 1-2 layers in white to level the substrate.

If necessary, the use of dehumidifiers is recommended.

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.

Each spray application with dosed material use.

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

Reworking:

For renovation purposes, the same material must be spray applied once or twice in a criss-cross fashion onto the Sto-Acoustic Ceilings coated with the product.

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

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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.
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Cleaning the tools	Clean tools with water immediately after use.
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Indications, recommendations, special information, miscellaneous	Please observe the general Sto application guidelines for acoustic systems. They are available from Sto SE & Co. KGaA. Installation/coating must only be carried out after prior instruction.
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Delivery

Colour shade	white, tintable in accordance with the StoColor System
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Colour accuracy:

It is not possible to give any warranty for uniform colour accuracy and freedom from stains due to chemical and physical setting processes and different conditions, especially with regard to:

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

Note:

When tinting the material, the pigment paste adds small amounts of solvent to the product.

Packaging	pail
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Storage

Storage conditions	Store tightly sealed in frost-free conditions.
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Storage life	The quality of the original package is guaranteed until stock by date. The batch number of the package indicates the end of the storage period. Batch number explanation:
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Number 1 = the last number of year, numbers 2 + 3 = a week
 I.e.: 5450013223 – storage life until the 45th week of the year 2015

Certificates/approvals

Declaration of conformity No. 2014-04	Acoustic products formulation identity/name change Certificate of conformity
M 35 120/107	Sto-Acoustic Plaster - 25 mm, air cavity 245 mm Determining the sound absorption factor

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, titanium dioxide, calcium carbonate, silicate filler materials, water, additives, preservatives

Safety Please observe safety data sheet

Special notes

The information or data 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. Nevertheless, users are responsible for establishing the suitability of the product for its intended use.

Applications other than those explicitly mentioned in this technical data sheet are only permissible after prior consultation. Where no approval is given, such applications are at the risk of the user. This applies particularly to combinations 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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