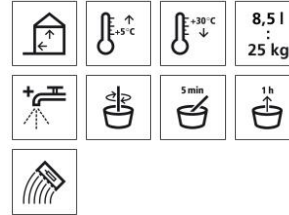


Technical Data Sheet

StoSilent Coll MW

Mineral system adhesive for StoSilent acoustic systems



Characteristics

Area of application

- interior
- as a bonding mortar for the StoSilent Direct acoustic system
- on mineral substrates
- on organic substrates with an intermediate coat of StoSilent Prep Quarz
- on organic substrates with an intermediate coat of StoPrep Contact

Properties

- reaction to fire (class) A1 in accordance with EN 13501-1
- good wet adhesive strength
- optimum non-sag properties
- perfectly matched to the StoSilent Direct acoustic system

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Mortar class	EN 998-1:2016	CS IV	
Bulk density of hardened mortar	EN 1015-10	1.3 g/cm ³	
Flexural strength (28 days)	EN 1015-11	4.9 N/mm ²	
Compressive strength (28 days)	EN 1015-11	16.0 N/mm ²	
Dynamic modulus of elasticity (28 days)	TP BE-PCC	7,800 N/mm ²	
Water vapour diffusion-equivalent air layer thickness μ	DIN EN 1015-19	≤ 25	
Water absorption (class)	EN 1015-18	W _c 1	
Thermal conductivity	EN 1745	≤ 0,45 W/(m*K) für P=50%	Table value
Thermal conductivity	EN 1745	≤ 0,49 W/(m*K) für P=90%	Table value
Reaction to fire (class)	DIN 13501-1	A2-s1, d0	
Spreading rate		856 L/t	

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.

Technical Data Sheet

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Substrate

Requirements

The substrate must be airtight, smooth, load-bearing, clean, dry, and free from sinter layers, efflorescence, and release agents.

Preparations

Check existing coatings for their suitability and load-bearing capacity.

Old substrates:

Remove loose paint remnants, as well as non-load bearing existing paint coats and coatings, and clean the surface (mechanically or using a suitable paint remover). Prime absorbent and crumbling substrates with StoPrim Plex or StoPrim GT. Overcoat existing paint coats with the bonding agent StoSilent Prep Quarz.

Concrete:

Remove contaminants due to formwork oil, grease, and wax. Touch up gaps with StoLevell In RS.

Oriented Strand Boards (OSBs)

Dust off the surface. Apply an intermediate coat of StoPrep In or StoSilent Prep Quarz.

Gypsum and pre-mixed plasters of the mortar groups PG IV and V:

Remove any sinter skin by mechanical means and dust off the surface. Prime with StoPrim Plex or StoPrim GT and apply an intermediate coat of StoSilent Prep Quarz.

Please refer to the guidelines of the Bundesausschuss Farbe und Sachwerteschutz (Federal Committee for Paint and the Protection of Material Assets) and the Bundesverband der Gipsindustrie e.V. (Federal association for the gypsum industry) Prepare the concrete substrate using a suitable method in accordance with ZTV-ING Part 3, section 4.

Application

Application temperature

Lowest substrate and application temperature: +5 °C at max. 70 % relative humidity.

Time for application

At +20 °C: approx. 60 - 90 minutes

Mixing ratio

8.5 l of water per 25 kg

Material preparation

Mix for approx. 3 minutes. Leave to stand for approx. 3 - 5 minutes. Remix for approx. 30 seconds.

Consumption

Type of application	Approx. consumption	
bonding	3.5 - 4.0	kg/m ²
per mm layer thickness	1.2	kg/m ²

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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.

Application	manually
	Apply the product full-faced to the back of the board and comb off with the Sto-Notched Trowel 15 x 15 mm (or the Sto-Notched Trowel 10 x 10 mm) at an angle of approx. 45°. Using a bucket trowel, apply an adhesive bead all the way around the edge of the board to fix the acoustic board to the substrate.

Drying, curing, ready for next coat	At +20 °C: after 36 hours Drying can be accelerated with a condensate dryer.
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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. Only install and/or coat the product after training. Incorporate the structural expansion joints.
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Delivery

Colour shade	white
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Packaging	sack
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Storage

Storage conditions	Store in dry and frost-free conditions.
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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
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Identification

Product group	Bonding mortars
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Technical Data Sheet

StoSilent Coll MW

Composition

cement
polymer powder
mineral extenders
thickener
accelerator

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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