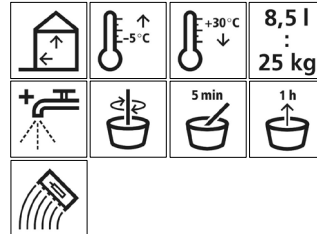


Technical Data Sheet

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

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

Criteria	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	EN 1015-11	4.9 N/mm ²	
Compressive strength	EN 1015-11	16.0 N/mm ²	
Dynamic modulus of elasticity	TP BE-PCC	7,800 N/mm ²	
Water vapour diffusion- equivalent air layer thickness μ	DIN EN 1015-19	≤ 25	
Water absorption	EN 1015-18	W _c 1	
Thermal conductivity	EN 1745	$\leq 0,45 \text{ W}/(\text{m}^{\circ}\text{K})$ für P=50%	Table value
Thermal conductivity	EN 1745	$\leq 0,49 \text{ W}/(\text{m}^{\circ}\text{K})$ für P=90%	Table value
Reaction to fire	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.

Substrate

Requirements

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

Preparation

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.

Overcoat existing paint coats with the bonding agent StoSilent Prep Quarz.

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Concrete:

Remove contaminants due to formwork oil, grease, and wax. Fill up gaps if there is any.

Oriented Strand Boards (OSBs)

Dust off the surface. Apply an intermediate coat of 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 and apply an intermediate coat of StoSilent Prep Quarz.

Application

Application temperature	Lowest substrate and application temperature: +5 °C at max. 70 % relative humidity.	
Time of application	At +20 °C: approx. 60 - 90 minutes	
Material ratio	8.5 lit 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
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.
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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. 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	Article number	Name	Packing
	01269-002	StoSilent Coll MW	25 kg/bag

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StoSilent Coll MW

Storage

Storage conditions Store in cool dry conditions; avoid direct sunlight.

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: 6450013223 - storage life ends week 45 in 2026

Identification

Product group Bonding mortars

Safety Please refer to 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 www.sto-sea.com.

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*Product images may differ from the actual product.