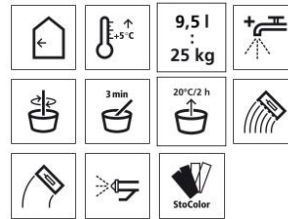


Technical Data Sheet

StoLevell Calce FS

Ecological, functional filler on a lime base in accordance with EN 998-1



Characteristics

- Area of application**
- interior
 - as a functional filler for the StoCalce Functio sorption system

Properties

- mineral
- preservative-free
- perfectly matched to the StoCalce Functio Sorption System
- highly diffusion-open
- very good non-sag properties
- very good moisture management
- contributes towards optimising the ambient climate
- easy and supple application
- best regulation of humidity
- rapid sorption and desorption
- MBV practical > 2.0 (g/m² * % RH) in the system with StoLevell Calce RP, StoCalce Activ

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Mortar class	EN 998-1	CS II	
Mortar class	DIN 18550-1/-2	P II	
Bulk density of hardened mortar	EN 1015-10	1.2 g/cm ³	
Flexural strength (28 days)	EN 1015-11	1.5 N/mm ²	
Compressive strength (28 days)	EN 1015-11	2.3 N/mm ²	
Dynamic modulus of elasticity (28 days)	TP BE-PCC	2,300 N/mm ²	
Water vapour diffusion-equivalent air layer thickness μ		9	
Thermal conductivity	EN 1745	≤ 0.39 W/(m*K) for P=50%	Table value
Thermal conductivity	EN 1745	≤ 0.43 W/(m*K) for P=90%	Table value

Technical Data Sheet

StoLevell Calce FS

Reaction to fire (class)	EN 13501-1	A2-s1, d0
Spreading rate		920 L/t
Bulk density		1.27 g/cm ³
Capillary absorption		> 0.4 kg/m ² m W _c 0

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.

Preparations

The preparation of the substrate and the execution of the coating work must correspond to the generally recognised technological norms. All coatings and preliminary work should always be geared towards the project and the requirements it is exposed to.

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 coatings must not form a glossy layer.

Plaster substrates:

Apply an intermediate coat of cementitious fillers/mortars with StoPrep In. StoPrep In is ready-to-use and, depending on the substrate, dilutable with up to max. 10 % water. Stir the material well before application.

Mould-infested areas:

Treat the surfaces with Geiger STOP or coat with a 10 % hydrogen peroxide solution followed by thorough and subsequent washing with clear water. Please observe the respective national recommendations and directives when carrying out mould remediation.

The coating layer build-ups and recommendations listed do not release the applicator from his or her own responsibility for substrate testing and assessment.

Application

Application temperature

Lowest temperature of substrate and air: +5 °C
Highest temperature of substrate and air: +30 °C

Time for application

At +20 °C: approx. 2 hours

Mixing ratio

9.5 l of water per 25 kg

Technical Data Sheet

StoLevell Calce FS

Material preparation Pour clean, cold tap water into a clean container and add the pre-blended dry mortar. Mix for approx. 2 minutes. Allow to mature for approx. 3 minutes. Remix for approx. 30 seconds.

Consumption	Type of application	Approx. consumption	
	per mm layer thickness	1.10	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.

Coating build-up

Substrate coating in a new building:
 StoLevell Calce RP, single layer, layer thickness: approx. 10 - 20 mm
 StoLevell Calce FS, single layer, layer thickness: approx. 10 - 15 mm

Plaster substrates (e.g. gypsum plasterboard): prime with StoPrep In.

Apply StoLevell Calce FS as a bonding agent using a adhesive comb (8 x 8 mm) on non-absorbent substrates, for example concrete and XPS.

Heterogeneous blockwork and XPS boards: Reinforce StoLevell Calce RP with Sto-Glass Fibre Mesh F (4 x 4 mm).

Existing load-bearing and matt coatings: Apply StoLevell Calce FS directly. layer thickness for single-layer application: 3 - 15 mm

Depending on the substrate, reinforcement with Sto-Glass Fibre Mesh F (4 x 4 mm) may be required.

Finish:
 StoCalce Activ K, StoCalce Activ MP, StoCalce Natura, StoDecosil.

Note:
 A paint coat of StoColor Calcetura or StoColor Sil In without significantly impairing the sorption may be possible.

Application manually, by machine

Apply the product in the corresponding layer thickness manually using a rust-free steel trowel or by machine.

For layer thicknesses > 3 mm, embed a Sto-Glass Fibre Mesh for easier application. Fully embed the mesh in the upper third of the still-damp reinforcing coat. The mesh joints must overlap by 10 cm. Apply additional diagonal reinforcement on building apertures (e.g. windows, door reveals).

Technical Data Sheet

StoLevell Calce FS

The application method, tools, and substrate have a significant impact on the result.

Protect the surface from drying too quickly and protect it from draughts.

Drying, curing, ready for next coat

Drying depends on the climatic conditions in the room (e.g. temperature, relative air humidity).

Curing depends on the climatic conditions in the room and lasts approx. 1 day per mm layer thickness.

Cleaning the tools

Clean tools with water immediately after use.

Notes, recommendations, special information, miscellaneous

Prefabricated construction:
-Special requirements and differing regulations apply in prefabricated construction.

Application:
-Do not apply different batches on one surface.
-Ensure a constant mixing ratio.
-Only mix entire sacks with water.
-After mixing: ensure 5-10 minutes maturing time. Then stir the material 1-2 minutes.

Delivery

Colour shade

natural white, limited tintability in accordance with the StoColor System

Tintability:

- The material is tintable ex works. In order to avoid any colour shade deviations, order the material for a project from one batch.
- The material is tinted to max. 20 % with StoLook Punto F. Mix the entire contents of the sack with StoLook Punto F.
- Do not tint the material if using the product as a bonding agent or priming coat.

Colour accuracy:

- Natural mottling occurs if the product is applied tinted.
- This effect occurs due to mineral and natural ingredients.
- If the effect is not desired: apply a Sto silicate emulsion paint in the same colour shade.
- Chemical setting processes, physical setting processes, as well as different project conditions affect the change in colour shade (colour shade accuracy, colour shade evenness, staining).

No guarantee in the following cases:

- uneven absorbency of the substrate
- surface has different levels of substrate moisture
- partly very different alkalinity and/or substances in the substrate

Technical Data Sheet

StoLevell Calce FS

Storage

Storage conditions Store in dry 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

natureplus® - Certificate 0808-1409-046-3	StoLevell Calce FS Environment - Health - Features
--	---

Identification

Product group Filler

Composition

comprehensive declaration in accordance with the "natureplus®" procurement directive
 white Portland cement
 hydrated lime
 polymer powder
 mineral extenders
 organic extenders
 thickener

Safety

This product is subject to compulsory labelling in accordance with the current EU regulation.
 Observe the Safety Data Sheet!
 Safety instructions refer to the ready-to-use, unapplied product.

Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. Keep out of reach of children. Avoid breathing dust. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/ attention. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash it before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Technical Data Sheet

StoLevell Calce FS

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.

Sto SE & Co. KGaA
Ehrenbachstr. 1
79780 Stühlingen / Germany
Phone: +49 7744 57-0
Fax: +49 7744 57-2178
Infoservice.export@sto.com
www.sto.com