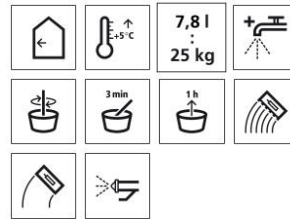


# Technical Data Sheet

## StoLevell Calce RP

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



### Characteristics

#### Area of application

- interior
- on all mineral substrates
- as a functional base coat for the StoCalce Functio sorption system

#### Properties

- mineral
- preservative-free
- perfectly matched to the StoCalce Functio Sorption System
- very easy to float-finish
- very good non-sag properties
- highly diffusion-open
- excellent moisture management
- contributes towards optimising the ambient climate
- simple and supple application
- best regulation of humidity
- quick sorption and desorption
- MBV practical > 2.0 (g/m<sup>2</sup> \* % RH) in the system with StoLevell Calce FS, 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	1.32 g/cm <sup>3</sup>	
Flexural strength (28 days)	EN 1015-11	1.5 N/mm <sup>2</sup>	
Compressive strength (28 days)	EN 1015-11	2.0 N/mm <sup>2</sup>	
Dynamic modulus of elasticity (28 days)	TP BE-PCC	2,600 N/mm <sup>2</sup>	
Water vapour diffusion-equivalent air layer thickness $\mu$		7	
Thermal conductivity	EN 1745	$\leq 0.82 \text{ W}/(\text{m}^*\text{K})$ for P=50 %	Table value

# Technical Data Sheet

## StoLevell Calce RP

Thermal conductivity	EN 1745	$\leq 0.89 \text{ W/(m}^{\circ}\text{K)}$ for P=90 %	Table value
Reaction to fire (class)	EN 13501-1	A1	
Spreading rate		820 L/t	
Bulk density		1.36 g/cm <sup>3</sup>	
Capillary absorption		$> 0.4 \text{ kgm}^2\text{m}$	W <sub>c</sub> 0
Bond strength on concrete		$\geq 0.08 \text{ N/mm}^2$	

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/air: +5 °C  
highest temperature of substrate and air: +30 °C

**Time for application** At +20 °C: approx. 2 hours

# Technical Data Sheet

## StoLevell Calce RP

**Mixing ratio** 7.8 l of water per 25 kg

**Material preparation** Decant water first and add the pre-blended dry mortar. Stir for approx. 2 minutes, then allow to mature for approx. 5 minutes, and then stir again for approx. 30 seconds.

If applying the material by machine or pump, adjust the application consistency accordingly.

Consumption	Type of application	Approx. consumption	
	per mm layer thickness	1.22	kg/m <sup>2</sup>

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:  
StoLevell Calce RP, single layer, layer thickness: approx. 10 - 20 mm

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).

Intermediate coat:  
StoLevell Calce FS  
layer thickness for single-layer application: 3 - 5 mm  
layer thickness for multi-layer application: max. 8 mm

Finish:  
StoCalce Active K, StoCalce Active MP

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

Coating build-up when used as float-finished plaster:

Substrate coating:  
StoLevell Calce RP, single layer, layer thickness: approx. 10 - 20 mm (in case of gypsum substrate, see section on requirements).

Intermediate coat:  
Leave the substrate coating to dry through, then apply StoLevell Calce RP to grain size and float-finish the surface using a sponge float.

# Technical Data Sheet

## StoLevell Calce RP

	Finish: paint coat of StoColor Calcetura or StoColor Sil In
<b>Application</b>	<p>manually, by machine</p> <p>Apply the product in the intended layer thickness using a sprayer and trowel it off with a darby.</p> <p>Roughen the last layer with a suitable tool.</p> <p>The application method, tools, and substrate have a significant impact on the result. The product can also be applied with commonly-available render spray machines for fine textured render.</p> <p>Protect the surface from drying too quickly and protect it from draughts.</p>
<b>Drying, curing, ready for next coat</b>	<p>Drying depends on the climatic conditions in the room (e.g. temperature and relative air humidity).</p> <p>Curing depends on the climatic conditions in the room and lasts approx. 1 day per mm layer thickness.</p>
<b>Cleaning the tools</b>	Clean tools with water immediately after use.
<b>Notes, recommendations, special information, miscellaneous</b>	In prefabricated construction, special requirements and hence differing regulations may be valid.
<b>Delivery</b>	
<b>Colour shade</b>	<p>natural white</p> <p>Colour accuracy: Chemical and physical setting processes and different project conditions influence colour shade accuracy, uniformity of colour shade, and whether patches appear. we therefore offer no guarantee in the following cases: a) uneven absorbency of the substrate b) different levels of substrate moisture over an area c) partly very different alkalinity and/or substances in the substrate</p>
<b>Storage</b>	
<b>Storage conditions</b>	Store in dry conditions.
<b>Storage life</b>	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.:

# Technical Data Sheet

## StoLevell Calce RP

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 0808-1409-046-4	StoLevell Calce RP Environment - Health - Features
--	---

### Identification

Product group	Mineral base coat
---------------	-------------------

### Composition

comprehensive declaration in accordance with the "natureplus®" procurement directive  
 white Portland cement  
 hydrated lime  
 mineral extenders  
 organic extenders  
 thickener  
 swelling agent  
 surface additive

### 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.

### 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.

## Technical Data Sheet

---

# StoLevel Calce RP

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