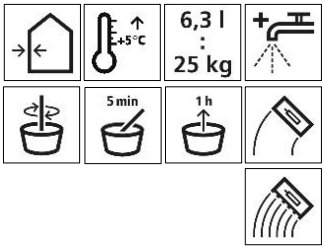
Building with conscience.

Technical Data Sheet

StoLevell Uni

Mineral bonding and reinforcing mortar/base coat



Characteristics

Area of application

- Exterior and interior
- For reworking old mineral renders and nearly all old organic renders or masonry
- For bonding insulation boards and render carrier boards to mineral or organic, non-elastic substrates
- For thin-layer reinforcing coats
- As adhesive and reinforcing compound for StoTherm Vario, StoTherm Mineral, StoTherm Wood and StoReno

Properties

- Very good application properties
- Very high adhesive strength and adhesion to substrate
- Very highly permeable to water vapour
- Very highly water-repellent
- Very highly weather-resistant

Information /notes

- Natureplus®-certified as part of an insulation system

Technical Data

Criteria	Standard / test specification	Value/ Unit	Notes
Mortar class	EN 998-1:2016	CS IV	
Mortar class	DIN 18550-1/-2	P II	
Bulk density of hardened mortar	EN 1015-10	1.4 g/cm³	
Flexural strength	EN 1015-11	2.9 N/mm²	
Compressive strength	EN 1015-11	7.4 N/mm²	
Dynamic modulus of elasticity	TP BE-PCC	5,800 N/mm²	
Water vapour diffusion-equivalent air layer thickness µ	DIN EN 1015-19	≤ 25	
Water absorption	ETAG 004	≤ 0.5 kg/m²	
Water absorption	EN 1015-18	c ≤ 0.20 kg/(m²*min 0.5)	Wc 2
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	EN 13501-1	A2-s1, d0	
Spreading rate		780 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.

Building with conscience.

Technical Data Sheet

StoLevell Uni

Substrate

Requirements

The substrate must be firm, level, dry, load-bearing, and free from grease and dust.
Check whether the fixing is suitable for the substrate at the building site, if necessary

Damp or not fully cured substrates can lead to defects in the following coatings, e.g. bubble formation, cracks.

Preparations

Check whether existing coatings are suitable and load-bearing. Remove any non load-bearing or structurally weak coatings. Clean the substrate if necessary

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. 60 minutes

Mixing ratio

6.3 l of water per 25 kg

Material preparation

Decant water, then 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
Reinforcement	4.00 - 5.00 kg/m²
Bonding EPS boards	4.50 - 6.00 kg/m²
Bonding mineral wool boards and soft fibre boards	6.00 - 7.00 kg/m²
Adhesive application to the wall in case of EPS foam boards and speed lamellas	6.50 - 8.00 kg/m²
Additional bonding of insulation boards in case of rail fixing	2.00 - 2.50 kg/m²
Levelling compound for dowel heads and recesses, also used as fine filler	1.00 - 1.50 kg/m²
Per mm layer thickness	1.28 kg/m

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, by machine

Usage as an adhesive compound:
Apply the product by machine or manually using a rust-free steel trowel.
Immediately press the insulation boards into the fresh layer of adhesive, or float them into place and apply pressure.

Bonded proportion of the insulation board if applying the adhesive compound to the wall:
Sto-EPS Board: min. 60 %
Sto-Speed Lamella: min. 50 %

Bonded proportion of the insulation board if applying the adhesive compound to the insulation board: min. 40 %
On external wall insulation systems with ceramic cladding: min. 60 %

Usage as a reinforcing compound:
Apply the product by machine or manually using a rust-free steel trowel.
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 Uni

	Recommended average reinforcing coat thickness: 3-5 mm The specified value is a reference value. Depending on the area of use (e.g. in corners and reveals), the layer thickness may vary significantly. Recommendation: machine application with mixer and/or pump. The product can also be applied with commonly-available render spray machines for fine textured render.
Drying, curing, ready for next coat	Drying time depends on temperature, wind, and relative humidity. During unfavourable weather conditions, apply suitable protective measures (e.g. protection against rain) to any facade surface which is to be treated or which has been freshly completed. Curing depends on the weather conditions and takes approx. 1 day/mm of layer thickness. At a temperature (air and substrate) of +20 °C and relative humidity of 65 %: over-coatable after approx. 24-48 hours.
Cleaning the tools	Tools must be cleaned immediately after use with cleaning water
Notes, recommendations, special information, miscellaneous	Please consult the local sales office for further information and any site assistance required.

Delivery

Colour shade	Natural white
Tintable	Not tintable

Packaging

Article number	Name	Packing
00815-001	StoLevell Uni	25 kg

Storage

Storage conditions	Store in cool dry conditions; avoid direct sunlight.
Storage life	The quality of the material in its original container is guaranteed for the maximum stated storage life. The storage life information is included in the batch number on the container. Batch number explanation: Number 1 = the last number of year, numbers 2 + 3 = a week i.e.: 1450013223 – stock date until the 45th week of the year 2021

Identification

Product group	Bonding and reinforcing mortar
Safety	Please refer to Safety Data Sheet.

Building with conscience.

Technical Data Sheet

StoLevell Uni

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.

Sto SEA Pte Ltd
159 Sin Ming Road
#06-02 Amtech Building
Singapore 575625
Phone: +65 6453 3080
Fax : +65 6453 3543
info.sg@sto.com
www.sto-sea.com

Sto SEA Sdn Bhd
28, Jalan Rajawali 3
Bandar Puchong Jaya,
47170 Selangor, Malaysia
Phone: +60 3 8080 9066
Fax: +60 3 8080 9255
info.my@sto.com
www.sto-sea.com

Sto SEA Pte Ltd
3656/49-52 Green Tower, 16th Floor
Rama IV Rd, Klongton, Klongtoei,
10110 Bangkok, Thailand
Phone: +66 2 1684 921 Ext. 230
Fax: +66 2 1684 999
info.sg@sto.com
www.sto-sea.com

Sto SE & Co. KGaA
Ehrenbachstrasse 1
79780 Stühlingen,
Germany
Phone: +49 7744 57-0
Fax: +49 7744 57-2178
info.sg@sto.com
www.sto-sea.com

*Product images may differ from the actual product.