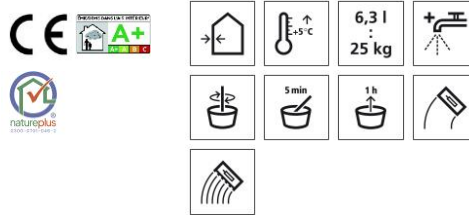


Technical Data Sheet

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

Technical data

Criterion	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/cm ³	
Flexural strength	EN 1015-11	2.9 N/mm ²	
Compressive strength	EN 1015-11	7.4 N/mm ²	
Dynamic modulus of elasticity	TP BE-PCC	5,800 N/mm ²	
Water vapour diffusion-equivalent air layer thickness μ	DIN EN 1015-19	≤ 25	
Water absorption	ETAG 004	≤ 0.5 kg/m ²	
Water absorption	EN 1015-18	c ≤ 0.20 kg/(m ² ·min 0.5)	W _c 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	

Technical Data Sheet

StoLevell Uni

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.	

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 subsequent coatings, e.g. bubble formation, cracks.
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Preparations	Check whether existing coatings are suitable and load-bearing. Remove any non load-bearing or structurally weak coatings. Clean the substrate if necessary.
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Application

Application temperature	Lowest temperature of substrate and air: +5 °C Highest temperature of substrate and air: +30 °C
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Time for application	At +20 °C: approx. 60 minutes
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Mixing ratio	6.3 l of water per 25 kg
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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.
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Consumption	Type of application	Approx. consumption	
	reinforcement	4.00 - 5.00	kg/m ²
reinforcement for StoTherm Wood	5.00 - 8.00	kg/m ²	
bonding EPS boards	4.50 - 6.00	kg/m ²	
Bonding mineral wool boards and soft fibre boards	6.00 - 7.00	kg/m ²	
adhesive application to the wall in case of EPS foam boards and speed lamellas	6.50 - 8.00	kg/m ²	
additional bonding of insulation boards in case of rail fixing	2.00 - 2.50	kg/m ²	
bonding StoCarrier Reno	4.50 - 5.00	kg/m ²	
bonding Resol insulation boards	4.00	kg/m ²	
levelling compound for dowel heads and recesses, also used as fine filler	1.00 - 1.50	kg/m ²	
per mm layer thickness	1.28	kg/m ²	

Technical Data Sheet

StoLevell Uni

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).

Recommended average reinforcing coat thickness: 3-5 mm

Recommended average reinforcing coat thickness for StoTherm Wood: 5 - 7 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 the work in progress and freshly completed facades.

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.

Technical Data Sheet

StoLevell Uni

Cleaning the tools Clean tools with water immediately after use.

Notes, recommendations, special information, miscellaneous For further application instructions, see the application guidelines for the systems.

Delivery

Colour shade natural white

Tintable Not tintable

Packaging sack

Storage

Storage conditions Store in dry conditions.

Storage life This product has a low chromate content. The quality of the product in its original container is guaranteed until the maximum storage life has expired. The storage life date can be deduced from the batch number of the container.
 Batch number explanation:
 Number 1 = the last number of year, numbers 2 + 3 = a calendar week
 i.e.: 6450013223 – storage life until week 45 of the year 2026

Certificates/approvals

natureplus® - Certificate 0300-0701-046-2	StoTherm Wood Environment - Health - Features
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Identification

Product group Bonding and reinforcing mortar

Composition

comprehensive declaration in accordance with the "natureplus®" procurement directive
 white Portland cement
 polymer powder
 hydrated lime
 mineral extenders
 mineral lightweight aggregates
 fibre fillers
 Thickener
 Hydrophobic agents

Technical Data Sheet

StoLevell Uni

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.

The longer fresh render remains on the skin, the greater the risk of serious skin damage.

Keep children away from fresh render!

The manufacturer's work safety instructions must be complied with at all times during the application phase.

Causes skin irritation. Causes serious eye damage. Keep out of reach of children. 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.

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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