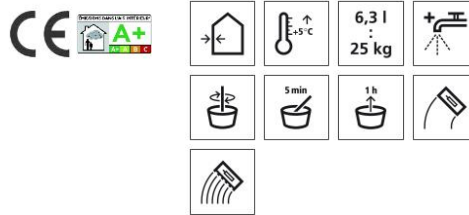


Technical Data Sheet

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

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 (28 days)	EN 1015-11	2.9 N/mm ²	
Compressive strength (28 days)	EN 1015-11	7.4 N/mm ²	
Dynamic modulus of elasticity (28 days)	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 (class)	EN 1015-18	C ≤ 0.20 kg/(m ² *min ^{0,5})	W _c 2

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Thermal conductivity	EN 1745	$\leq 0,45 \text{ W}/(\text{m}^*\text{K})$ für P=50%	Table value
Thermal conductivity	EN 1745	$\leq 0,49 \text{ W}/(\text{m}^*\text{K})$ für P=90%	Table value
Reaction to fire (class)	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.

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/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 StoReno Plan	4.50 - 5.00	kg/m ²

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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

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 any facade surface which is to be treated or which has been freshly completed.

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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 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 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 45in 2021

Certificates/approvals

ETA-05/0098	StoTherm Classic® 2 (EPS and StoLevell Classic/StoLevell Classic QS/Sto-RFP) European Technical Assessment
ETA-09/0058	StoTherm Classic® 5 (EPS and StoArmat Classic plus/StoArmat Classic plus QS) European Technical Assessment
ETA-20/0465	StoTherm Classic® 11 (EPS and StoArmat Classic HD + StoAdditiv HD) European Technical Assessment
ETA-07/0088	StoTherm Classic® 2 (MW/MW-L and StoLevell Classic) European Technical Assessment
ETA-09/0288	StoTherm Classic® 5 (MW/MW-L and StoArmat Classic plus/StoArmat Classic plus QS) European Technical Assessment
ETA-18/0582	StoTherm Classic® 8 (MW/MW-L and StoArmat Classic S1/StoLevell Classic + QS/Sto-RFP + QS/StoPrefa Armat) European Technical Assessment

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ETA-12/0533	StoTherm Classic® 10 (MW/MW-L and StoArmat Classic S1) European Technical Assessment
ETA-20/0480	StoTherm Classic® 11 (MW/MW-L and StoArmat Classic HD + StoAdditiv HD) European Technical Assessment
ETA-05/0130	StoTherm Vario 1 (EPS and StoLevell Uni) European Technical Assessment
ETA-06/0045	StoTherm Vario 3 (EPS and StoLevell Novo) European Technical Assessment
ETA-12/0561	StoTherm Vario 7 (EPS and StoLevell FT) European Technical Assessment
ETA-19/0443	StoTherm Vario 8 (timber frame construction – EPS and StoLevell Duo/StoLevell Duo plus/StoLevell Uni/StoLevell Novo/StoLevell FT) European Technical Assessment
ETA-09/0231	StoTherm Mineral 1 (MW/MW-L and StoLevell Uni) European Technical Assessment
ETA-07/0027	StoTherm Mineral 3 (MW/MW-L and StoLevell Novo) European Technical Assessment
ETA-13/0901	StoTherm Mineral 5 (MW/MW-L and StoLevell FT) European Technical Assessment
ETA-13/0581	StoTherm Mineral 8 (timber frame construction - MW-L and StoLevell Uni/StoLevell Novo, fixing: bonded) European Technical Assessment
ETA-08/0303	StoTherm Wood 1 (timber frame construction - soft wood fibre and StoLevell Uni/StoLevell FT/StoLevell Novo, fixing: anchor-fixed) European Technical Assessment
ETA-09/0304	StoTherm Wood 2 (timber frame construction - soft wood fibre and StoLevell Uni/StoLevell FT, anchor/adhesive) European Technical Assessment
ETA-09/0267	StoTherm Resol European Technical Assessment
ETA-13/0580	StoTherm Resol Plus European Technical Approval
ETA-17/0041	StoTherm PIR European Technical Assessment
ETA-17/0406	StoVentec R European Technical Assessment
ETA-16/0684	StoTherm Cladding 1 European Technical Assessment
natureplus® - Certificate 0300-0701-046-2	StoTherm Wood Environment - Health - Features

Identification

Product group

Bonding and reinforcing mortar

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Composition

comprehensive declaration in accordance with the "natureplus[®]" procurement directive
 white Portland cement
 polymer powder
 hydrated lime
 mineral extenders
 mineral lightweight aggregates
 organic extenders
 thickener
 hydrophobic agents

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. 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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