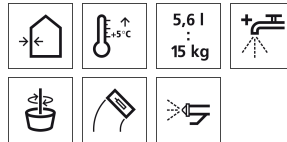


Technical Data Sheet

StoLevell Novo

Mineral lightweight mortar/base coat for bonding and reinforcing with polystyrene as lightweight aggregate



Characteristics

Application

- exterior and interior
- for all mineral substrates
- for bonding insulation boards onto mineral substrates
- for producing medium- and thick-layer reinforcing coats
- as adhesive and reinforcing compound for StoTherm Mineral, StoTherm Wood, and StoTherm Vario

Properties

- very highly water vapour permeable
- very highly weather-resistant
- highly economical in use
- low weight
- for application in medium and thick layers
- very well suitable for machine application

Technical data

Criterion	Standard / test regulation	Value/ Unit	Notes
Mortar class	EN 998-1	CS II	
Mortar class	DIN V 18550	P II	
Apparent density of cured mortar	EN 1015-10	1.0 g/cm ³	
Flexural strength (28 days)	EN 1015-11	1.5 N/mm ²	
Compressive strength (28 days)	EN 1015-11	2.6 N/mm ²	
Dynamic modulus of elasticity (28 days)	TP BE-PCC	2,000 N/mm ²	
Water vapour diffusion resistance factor μ			≤ 20
Water absorption	ETAG 004	≤ 0.5 kg/m ²	
Water absorption (class)		c ≤ 0.20 kg/m ² *min 0.5	W 2
Thermal conductivity	EN 1745	≤0.25 W/(m*K) for P=50%	table value
Thermal conductivity	EN 1745	≤0.27 W/(m*K) for P=90%	table value
Fire behaviour (class)	EN 13501-1	A1	non-combustible
Spreading rate		1,160 L/t	

The characteristic values stated are average values or approx. values. We use natural raw materials in our products, which means that the stated values can vary slightly in the same delivery batch; this does not affect the suitability of the product for its intended use.

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Substrate

Requirements The substrate must be firm, level, dry, load-bearing and free from grease and dust. The suitability of the fixing method with the substrate must be assessed individually on site where necessary. Damp or not fully cured substrates can lead to defects in subsequent coats, such as blistering or cracks.

Preparations Check existing coatings for their suitability and load-bearing capacity. Remove any non load-bearing or structurally weak coatings. The substrate must be cleaned where necessary.

Application

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

Processing time At +20°C: approx. 60 minutes

Mixing ratio 5.6 l of water per 15 kg

Material preparation Pour water into a container and then add the dry mortar material. Stir for approx. 2 minutes, allow to mature for approx. 3 minutes and then stir again for approx. 30 seconds.

Consumption	Type of application	Approx. consumption	
	reinforcement depends on system approval	5.00 - 13.00	kg/m ²
reinforcement for StoTherm Resol plus	5.00 - 10.00	kg/m ²	
reinforcement for StoTherm Resol	8.00 - 13.00	kg/m ²	
Reinforcement for StoTherm Wood	8.00 - 13.00	kg/m ²	
reinforcement for StoTherm Vario and Mineral	5.00 - 10.00	kg/m ²	
Reinforcement of EPS Boards, soft fibre boards M and mineral wool boards (layer thickness of 5-10 mm)	4.50 - 9.00	kg/m ²	
Bonding of EPS boards and mineral wool boards	3.50 - 4.00	kg/m ²	
Additional bonding of insulation boards with rail fixing	2.00	kg/m ²	
Bonding of Resol insulation boards	4.00	kg/m ²	
per mm of layer thickness	0.86	kg/m ²	

Material consumption depends on the application, substrate and consistency, amongst other factors. The specified consumption values are only to be used as a guide. If required, precise consumption values should be determined on the project.

Application very easily workable, manually, machine application is recommended, excellent machine application properties

Bonding:
Apply the product manually with a rust-free steel trowel, or by machine. The insulation boards must be immediately pressed or floated into the fresh bonding mortar bed, then some more pressure must be applied.

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Amount of adhesive for adhesive application onto the wall:
At least 60% of the board must be covered with adhesive.

Amount of adhesive on the board for adhesive application:
At least 40% of the board must be covered with adhesive.

Reinforcing:

Apply the product manually with a rust-free steel trowel, or by machine. Fully embed the mesh in the upper third of the reinforcement, into the reinforcing compound while it is still damp. The mesh joints must overlap by 10 cm. Diagonal reinforcement must be used on building openings (such as windows, door reveals, etc.).

Recommended average reinforcement layer thickness:

EPS: 5 - 10 mm
Mineral fibre: 5 - 10 mm
Phenolic resin: at least 8 mm
Soft fibre: 8 - 13 mm

The specified value is a reference value. Depending on the application case (corners, reveals, etc.), the layer thickness can possibly vary significantly.

Machine application (mixing and/or pumping) must be aimed for. The product is sprayable using commonly available fine plaster machines.

Drying, curing, ready for next coat	<p>The drying time depends on the temperature, wind and relative humidity. During unfavourable weather conditions it is imperative that suitable protective measures (e.g. protection against rain) be applied to the work in progress and freshly completed facades.</p> <p>Depending on the weather, curing takes approx. 1 day/mm of layer thickness.</p>
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Cleaning the tools	Clean tools with water immediately after use.
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Indications, recommendations, special information, miscellaneous	Further details for application can be found in the system-related application guidelines.
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Delivery

Colour shade	natural white
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Tintable	Not tintable.
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Packaging	sack
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Storage

Storage conditions	Store in dry conditions.
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Storage life	This product is low in chromate content.
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The quality of the original package is guaranteed until stock by date. The stock by date can be deduced from the batch number of the package.

Batch number explanation:

Number 1 = the last number of year, numbers 2 + 3 = a week

I.e.: 5450013223 – storage life until the 45th week of the year 2015

Certificates / approvals

ETA-12/0561	StoTherm Vario 7 (EPS and StoLevell FT) European technical approval
ETA-06/0045	StoTherm Vario 3 (EPS and StoLevell Novo) European technical approval
ETA-07/0027	StoTherm Mineral 3 (MW/MW-L and StoLevell Novo) European technical approval
ETA-13/0901	StoTherm Mineral 5 (MW/MW-L and StoLevell FT) European technical approval
ETA-13/0581	StoTherm Mineral 8 (MW-L - System A / System B) European technical approval
ETA-08/0303	StoTherm Wood 1 (HWF and StoLevell Uni, dowel/bracket) European technical approval
ETA-09/0267	StoTherm Resol European technical approval
ETA-13/0580	StoTherm Resol Plus European technical approval
Z-33.41-116	StoTherm Classic® / Vario, bonded on solid construction National technical approval
Z-33.42-129	StoTherm Classic® / Vario / Mineral, rail fixing National technical approval
Z-33.43-61	StoTherm Classic® / Vario / Mineral, bonded and dowelled National technical approval
Z-33.43-925	StoTherm Wood for solid construction substrates National technical approval
Z-33.43-1182	StoTherm Resol, glued and dowelled National technical approval
Z-33.44-134	StoTherm Mineral L / StoTherm Classic® L / StoTherm Classic® S1 National technical approval
Z-33.47-659	StoTherm Wood in timber frame construction National technical approval
Z-33.47-811	StoTherm Classic® / Vario / Classic® L / Mineral L, glued for timber frame construction National technical approval
Z-33.49-742	Double-walling solution for pre-existing thermal insulation National technical approval
P-3139/0796-MPA BS	StoTherm Wood General building inspection test certificate
The Blue Angel - StoTherm Mineral L	RAL Certificate No. 24769 Environmentally compatible thermal protection
The Blue Angel - StoTherm Mineral	RAL Certificate No. 24770 Environmentally compatible thermal protection
The Blue Angel - StoTherm Classic® S1	RAL Certificate No. 25660 Environmentally compatible thermal protection
The Blue Angel - StoTherm Classic® L/MW	RAL Certificate No. 25661 Environmentally compatible thermal protection

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Identification

Product group Bonding and reinforcing mortar

Composition white cement, Lime hydrate, Polymer powder, Sands, organic lightweight aggregates, Additive

Safety This product is a hazardous material.
Observe the safety data sheet!

Special instructions

The information or data serves to ensure the product's intended use or its suitability for use and is based on our findings and experience. Nevertheless, users are responsible for establishing the suitability of the product for its intended use.

Applications other than those explicitly mentioned in this technical data sheet are only permissible after prior consultation. Where no approval is given, such applications are at the risk of the user. This applies particularly to combinations 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
D - 79780 Stühlingen
Phone: +49 7744 57-0
Fax: +49 7744 57-2178
Infoservice.export@sto.com
www.sto.com