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Technical Data Sheet StoLevell Novo

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





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Characteristics	
Area of application	 exterior and interior for reworking old mineral renders or masonry for bonding insulation boards onto mineral substrates for producing medium- and thick-layer reinforcing coats as an adhesive and reinforcing compound for StoTherm Vario, StoTherm Mineral, StoTherm Wood, StoTherm Resol, StoTherm Resol plus and StoTherm PIR
Properties	 highly economical in consumption suitable for application in medium to thick layers highly suitable for machine application very highly permeable to water vapour very highly weather-resistant low weight
Technical data	

Criterion	Standard / test specification	Value/ Unit	Notes
Mortar class	EN 998-1	CS II	
Mortar class	DIN 18550-1/-2	ΡII	
Bulk density of hardened mortar	EN 1015-10	0.9 g/cm ³	
Flexural strength (28 days)	EN 1015-11	1.7 N/mm ²	
Compressive strength (28 days)	EN 1015-11	3.3 N/mm ²	
Dynamic modulus of elasticity (28 days)	TP BE-PCC	2,000 N/mm ²	
Water vapour diffusion- equivalent air layer thickness µ		≤ 20	
Water absorption	ETAG 004	≤ 0.5 kg/m²	
Water absorption (class)	EN 1015-18	C ≤ 0.20 kg/(m²*min ^{0,5})	W _c 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

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	Reaction to fire (class) DIN 13501-1	A2-s1 d0
	Spreading rate	1 190 /t
	The characteristic values stated are average the natural raw materials in our products, the same delivery batch; this does not affect the intended use.	e values or approximate values. Due to be stated values can vary slightly in the e suitability of the product for its
Substrate		
Requirements	The substrate must be firm, level, dry, load Check whether the fixing is suitable for the necessary. Damp or not fully cured substrates can lead e.g. bubble formation, cracks.	bearing and free from grease and dust. substrate at the building site, if to defects in the subsequent coatings,
Preparations	Check existing coatings for their suitability a non load-bearing or structurally weak coatir Clean the substrate if necessary.	and load-bearing capacity. Remove any ngs.
Application		
Application temperature	Lowest temperature of substrate and air: +5 Highest temperature of substrate and air: +	5 °C 30 °C
Time for application	At +20 °C: approx. 60 minutes	
Mixing ratio	5.6 I of water per 15 kg	
Material preparation	Decant water, then add the pre-blended dry allow to mature for approx. 3 minutes, and	mortar. Mix for approx. 2 minutes, then stir again for approx. 30 seconds.
Consumption	Type of application	Approx. consumption
	Reinforcement depends on system approva	al 5.00 - 15.00 kg/m²
	reinforcement for StoTherm Vario and Mine	ral 4.50 - 14.00 kg/m ²
	reinforcement for StoTherm Resol	8.00 - 13.00 kg/m ²
	reinforcement for StoTherm Resol plus	5.00 - 10.00 kg/m²
	reinforcement for StoTherm Wood	8.00 - 13.00 kg/m²
	reinforcement for StoTherm PIR	8.00 - 13.00 kg/m²
	Reinforcement of EPS foam boards, soft fib boards M, and mineral wool boards (layer thickness 5 - 10 mm)	re 4.50 - 14.00 kg/m²
	reinforcement of soft fibre boards M (layer thickness of 8 - 13 mm)	7.00 - 12.00 kg/m²
	bonding of EPS foam boards and mineral w boards	3.50 - 4.00 kg/m ²



	additional bonding of insulation boards in case o rail fixing	f 2.00	kg/m²
	per mm layer thickness	0.86	kg/m²
	bonding Resol insulation boards	4.00	kg/m²
	for bonding of PIR/PUR insulation boards	4.00	kg/m²
	Material consumption depends on the application among other factors. The stated consumption va guide. If required, determine precise consumption specific project.	n, substrate, and c lues are only to be n values on the ba	consistency, e used as a asis of the
Application	manually, by machine (recommended), sprayabl plaster and render spray machines	e with commonly a	available fine
	 Usage as an adhesive compound: Application option 1: Apply the product to the warust-free steel trowel, then comb through using a Immediately press the insulation boards into the them into place and apply pressure. Bonded proportion of the insulation board: min. 6 Application option 2: Apply the product to the instanually using a rust-free steel trowel. Immediatinsulation boards onto the wall, or float them into Bonded proportion of the insulation board: min. 4 Usage as a reinforcing compound: The product's application depends on the require reinforcing coat. Layer thickness according to insulation board matches the fibre: 5 - 15 mm Mineral fibre: 5 - 15 mm Phenolic resin rigid foam: 10 - 13 mm (in some compolyurethane: 10 - 13 mm (in some cases also 8 Application options according to layer thickness: 5 - 13 mm: application options 1 and 2 10 - 15 mm: application options 3 and 4 Application option 1: Manually and by machine in Apply the product in the corresponding layer thicknest free steel trowel. Fully embed the mesh in the units of the steel trowel. Fully embed the mesh in the units of the steel trowel. 	Il by machine or m notched trowel (1 fresh layer of adh 30 % ulation board by n tely press the fresh place and apply p 40 % ed or desired layer aterial: cases also 8 mm) mm)	nanually using a 15 x 15 mm). esive, or float nachine or hly-bonded pressure. r thickness of the
	Soft fibre: 8 - 13 mm Phenolic resin rigid foam: 10 - 13 mm (in some compolyurethane: 10 - 13 mm (in some cases also 8 Application options according to layer thickness: 5 - 13 mm: application options 1 and 2 10 - 15 mm: application options 3 and 4 Application option 1: Manually and by machine in Apply the product in the corresponding layer thic free steel trowel. Fully embed the mesh in the up reinforcing coat. Apply reinforcing compound to the to ensure that the mesh is completely covered we the layer thickness.	ases also 8 mm) mm) n one application kness by machin oper third of the s the mesh and dis- ith reinforcing co	(e tit



Application option 2: Manually and by machine, wet-in-wet in two application cycles

Application cycle 1: Apply reinforcing compound with a notched trowel. Comb in the direction in which the mesh will be laid in application cycle 2. Leave the reinforcing compound to start to dry. Arrange the mesh angle beads over the combing.

Application cycle 2: Apply reinforcing compound to the entire area. Embed the mesh into the reinforcing compound without any air pockets. Smooth the surface.

Application option 3: Manually in three application cycles Application cycle 1: Use a trowel to apply reinforcing compound to two thirds of the total final thickness. Smooth it and the comb off using a notched trowel ($4 \times 4 \text{ mm}$). Comb in the direction in which the mesh will be laid in application cycle 2. Leave the reinforcing compound to dry for 24 - 36 hours.

Application cycle 2: Level the surface, e.g. using a smoothing trowel, and then dust off as necessary.

Application cycle 3: Apply reinforcing compound to the entire area. Embed the mesh into the reinforcing compound without any air pockets. Smooth the surface.

Application option 4: By machine in three application cycles Application cycle 1: Apply the reinforcing compound to a thickness of 3 - 5 mm by machine with a 10 mm nozzle (sprinkling or spraying). The insulation board must be fully covered. Leave the reinforcing compound to dry over night.

Application cycle 2: In the area of mesh angle beads, apply reinforcing compound in the total final thickness and then comb off. Embed the mesh angle beads into the reinforcing coat.

Application cycle 3: Apply reinforcing compound with a 10 mm nozzle and embed the mesh. Apply reinforcing compound to the mesh wet-on-wet and distribute it, in order to ensure that the mesh is completely covered with reinforcing compound. Smooth the surface using a smoothing trowel. Observe the layer thickness.

Note for all application options:

The mesh joints must overlap by 10 cm. Apply additional diagonal reinforcement on building apertures (e.g. windows, door reveals). The mesh must lie in the upper third of the reinforcing coat. The reinforcing coat must cover the mesh by min. 2 - 3 mm.

The layer thickness must be the same over the entire facade surface area.

The values mentioned here are for guidance. Depending on the area of use (e.g. in corners and reveals), the layer thickness may vary significantly.



Drying, curing, ready for next coat	Drying time depends on te During unfavourable weath finished facade surface us rain. Curing depends on the cli mm layer thickness.	mperature, wind, and relative humidity. her conditions, protect the work in progress or newly- ing suitable protective measures, e.g. protection against matic conditions in the room and lasts approx. 1 day per
Cleaning the tools	Clean tools with water imm	nediately 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-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-09/0288	StoTherm Classic [®] 5 (MW/MW-L and StoArmat Classic plus/StoArmat Classic plus QS) European Technical Assessment
	ETA-20/0480	StoTherm Classic [®] 11 (MW/MW-L and StoArmat Classic HD + StoAdditiv HD) 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-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-09/0267	StoTherm Resol European Technical Assessment
ETA-13/0580	StoTherm Resol Plus European Technical Approval
ETA-17/0041	StoTherm PIR European Technical Assessment

Identification	
Product group	Bonding and reinforcing mortar
Composition	
	white Portland cement
	hydrated lime
	polymer powder
	mineral extenders
	nineral lightweight aggregates
	hydrophobic agents
	thickener
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.

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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