


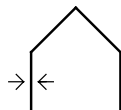
# StoLevell Uni



Mineral adhesive and reinforcing mortar in acc. with EN 998-1

Rev. INT.EN/061/02.2009

Characteristics				
<b>Function</b>	- High adhesive power; very good starting adhesive power - Very good adhesion			
<b>Optics</b>	- Colour of set material: Natural white			
<b>Application</b>	- Optimal application characteristics - For both manual and machine application			
Areas of use				
	- For interior and exterior use - As adhesive and reinforcing material for External Wall Insulation Systems StoTherm Vario, StoTherm Mineral and StoTherm Wood. As adhesive material for StoTherm Classic etc. - For all mineral and almost all organic substrates			
Technical data				
<b>Product group</b>	01 008 011 Facade bonding/reinforcing: Mineral mortar			
<b>Composition</b>	Calcium silicate, calcium hydroxide, polymer powder, silicon dioxide, calcium carbonate, additives			
Data 	Criterion	Norm / Test prescript	Value	Units
	Density of solid mortar	DIN 18 555	1,6	g/cm <sup>3</sup> <sup>(1)</sup>
	Flexional strength (after 28 days)	EN 196-1	3	N/mm <sup>2</sup> <sup>(2)</sup>
	Compressional strength (after 28 days)	EN 196-1	7	N/mm <sup>2</sup> <sup>(2)</sup>
	Dynamic E-modulus (after 28 days)	TP BE-PCC	5000 - 6000	N/mm <sup>2</sup> <sup>(2)</sup>
	Thermal conductivity λ	DIN 4108	0,87	W/(m·K)
	Water vapour diffusion: μ value	EN ISO 7783-2	15 - 35	
	Water absorption	ETAG 004, § 5.1.3.1	0,14	kg/m <sup>2</sup>
	<sup>(1)</sup> g/cm <sup>3</sup> = kg/dm <sup>3</sup> = kg/l <sup>(2)</sup> N/mm <sup>2</sup> = MPa  The values stated are average values. Due to the use of natural raw materials in our products, the actual value determined on an individual delivery may deviate slightly, without compromising product suitability.			
Certificates / Norms / Approvals	ETA-05/0130 ETA-06/0127	StoTherm Vario 1 StoTherm Mineral 2 Adhesive and reinforcement with StoLevell Uni. European Technical Approval, EOTA Bruxelles / DIBt Berlin		
ETA-03/0027 ETA-05/0098 ETA-06/0003 ETA-06/0148	StoTherm Classic 1 StoTherm Classic 2 StoTherm Classic QS1 StoTherm Classic QS2 Adhesive fixed with StoLevell Uni. European Technical Approval, EOTA Bruxelles			



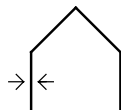
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Certificates / Norms / Approvals (cont.)		
	Z-33.41-116	StoTherm Classic / Vario (adhesive fixed) with StoLevell Uni. General approval for use as a construction material in Germany, DIBt - Berlin
	Z-33.43-61	StoTherm Classic / Vario (adhesive and dowel fixed) with StoLevell Uni. General approval for use as a construction material in Germany, DIBt - Berlin
	Z-33.42-129	StoTherm Classic / Vario (track fixing) with StoLevell Uni. General approval for use as a construction material in Germany, DIBt - Berlin
	Z-33.44-134	StoTherm Mineral L / StoTherm Classic L with StoLevell Uni. General approval for use as a construction material in Germany, DIBt - Berlin
	Z-33.47-811	StoTherm Classic / Vario / Classic L for timberframe construction, with StoLevell Uni. General approval for use as a construction material in Germany, DIBt - Berlin
	Z-33.46-422	StoTherm Systems with ceramic and natural stone cladding (adhesive and dowel fixed) with StoLevell Uni. General approval for use as a construction material in Germany, DIBt - Berlin
	Z-33.47-659	StoTherm Wood for timberframe construction, reinforcement with StoLevell Uni. General approval for use as a construction material in Germany, DIBt - Berlin
	Z-33.43-925	StoTherm Wood for solid wall construction, reinforcement with StoLevell Uni. General approval for use as a construction material in Germany, DIBt - Berlin
	Z-33.2-394	StoVentec Facade, reinforcement with StoLevell Uni. General approval for use as a construction material in Germany, DIBt - Berlin
	Z-33.2-601	StoVerotec Facade for timberframe construction, reinforcement with StoLevell Uni. General approval for use as a construction material in Germany, DIBt - Berlin
	Z-33.2-124	StoReno Facade with StoLevell Uni. General approval for use as a construction material in Germany, DIBt - Berlin
	Z-33.49-742	Doubling up of EWIS (EWIS renovation) with StoLevell Uni. General approval for use as a construction material in Germany, DIBt - Berlin
Application Substrate	The substrate must be firm, dry, clean and load bearing, frost-free as well as free of sinter layers, efflorescences and separating agents. Critical substrates must be tested for suitability (create test surface).	



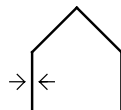
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<b>Substrate preparation</b>	If necessary, cleaning and/or priming of the substrate should be carried out.		
<b>Application temperature</b>	Air and substrate temperature should not be less than + 5 °C, not more than + 30 °C (until the material has completely set).		
<b>Mixing ratios</b>	StoLevell Uni powder : water = 4 : 1 parts by weight -> 25 kg powder : approx. 6,3 l water		
<b>Mixing procedure</b>	Measure out water and add factory dry mortar. Mix for approx. 2 minutes, then allow to mature for approx. 3 minutes and mix again for a further half minute with manual application.		
<b>Application time</b>	At 20 °C approx. 60 minutes.		
<b>Consumption</b>	<b>Article</b>	<b>Type of application</b>	<b>Consumption approx.</b>
	00815 StoLevell Uni	As adhesive for EPS Boards	4,5 - 6,0 kg/m <sup>2</sup>
		As adhesive for Sto Mineral Fibre Boards, Sto Mineral Lamellas, Sto Soft Wood Fibre Boards	6,0 - 7,0 kg/m <sup>2</sup>
		As adhesive - application on the wall - for Sto EPS Boards, Sto Speed Lamellas	6,5 – 8,0 kg/m <sup>2</sup>
		As additional adhesive for Sto EPS Boards, Sto Mineral Fibre Boards (track fixing system)	2,0 - 2,5 kg/m <sup>2</sup>
		As adhesive for StoReno Plan	4,5 kg/m <sup>2</sup>
		As equalisation material for dowel heads and countersinks, and when used as fine leveller	1,0 kg/m <sup>2</sup>
		As reinforcing material on Sto EPS Boards, Sto Mineral Fibre Boards, Sto Mineral Lamellas, Sto Speed Lamellas	4,0 - 7,0 kg/m <sup>2</sup>
		As reinforcing material on Sto Soft Wood Fibre Boards	6,0 - 8,0 kg/m <sup>2</sup>
		The consumption is dependent on the substrate and application method. Precise consumption figures should be determined on the object.	
<b>Application</b>	<p><u>Adhesive:</u> Apply adhesive manually or by machine to the insulation board or to the wall. Can be applied with rust-free trowel or toothed trowel and all current plastering machines. (see overview "Silo and Machine Technology").</p> <p>Adhesion share with adhesive application on the wall: - With Sto EPS Boards min. 60 % of the board in adhered condition - With Sto Speed Lamellas minimum 50 % of the board in adhered condition</p>		



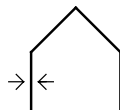
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<p><b>Application (cont.)</b></p>	<p>The insulation boards must immediately be pressed into the fresh adhesive mortar bed, then floated in and pressed on.</p> <p>The adhesion share with adhesive application onto the board: minimum 40 % of the board in adhered condition.</p> <p>With EWIS systems with ceramic cladding, an adhesive surface share of 60 % of the board must find itself in adhered condition.</p> <p><u>Reinforcement:</u> Over the whole surface with StoLevell Uni and Sto Glass Fibre Mesh. The mesh must be overlapped approx. 10 cm in the joint area. At building openings (window, door reveals etc.), diagonal reinforcement must be carried out.</p> <p>Recommended average reinforcement layer thickness 3 - 5 mm, except for StoTherm Wood. For StoTherm Wood, the average reinforcement layer thickness is approx. 5 mm. The stated value is a guideline value. Depending on application case (corners, reveals etc.), the coating thickness may vary significantly.</p> <p>The application may be carried out manually or by machine. Special suitability however for machine application (mixing and/or pumping).</p> <p>A quick drying at high temperatures has to be avoid (sprinkle with water).</p> <p>Overcoatable after 24 - 48 hours (at + 15 °C and max. 70 % air humidity).</p> <p>For further application notes, see the system-specific application guidelines.</p>
<p><b>Cleaning of tools</b></p>	<p>Clean with water immediately after use; bound material can only be mechanically removed.</p>
<p><b>Supply</b></p>	
<p><b>Product code and name</b></p>	<p>00815 StoLevell Uni</p>
<p><b>Packaging</b></p>	<p>00815-001 StoLevell Uni, paper sack 25 kg StoSilo large containers (not available in all countries)</p>
<p><b>Colour</b></p>	<p>Set material: Natural white. Not for tinting.</p>
<p><b>Storage</b></p>	
<p><b>Storage conditions</b></p>	<p>Store in dry conditions.</p>
<p><b>Storage life</b></p>	<p>In unopened original sacks, product can be stored for 9 months; in StoSilo large containers also for 9 months. (Relevant data: refer to packaging).</p> <p>This product is low in chromates according to TRGS 613. We guarantee these characteristics until expiry of the max. storage life.</p> <p>Please note the statement of guaranteed storage life on the printed batch number on the pail.</p> <p>Explanation of batch no.: e.g. 9450013223</p> <p>In the example, a storage life to end of calendar week 45 in 2009 is guaranteed (digit 1 = final digit of the year, digits 2+3 = calendar week). For further explanations, see the Sto Price List.</p>




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<b>Environment</b>	
<b>Disposal</b>	Waste has to be disposed considering the local, official regulations. Waste key in accordance with the European Waste Catalogue: 17 09 03.
<b>Special notes</b>	
<b>Marking</b>	Xi - irritant
<b>Safety</b>	This product requires marking according to the current EU guidelines. For further information on handling, storage and disposal of the product, refer to the EU Material Safety Data Sheet, available for the professional user. You will receive an EU Material Safety Data Sheet with your first order. Please observe the information on handling, storage and disposal of the product. 
<b>GISBAU-code</b>	ZP01
<b>Revision No.</b>	INT.EN/061
<b>Validity</b>	05.02.2009 Uses not clearly described in this Technical Data Sheet should only take place after consultation with Sto AG. The information and data serve to ensure the normal application purpose and normal application suitability. This Technical Data Sheet is valid outside Germany, in all countries without Sto subsidiary.
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