GB

ERFURT-KlimaTec
KP 1000+ PRO climate panel

ERFURT®
WÄNDE ZUM WOHLFÜHLEN

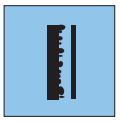
Product benefits

Mould-inhibiting

Energy-saving

Sound absorbing

For rooms with higher moisture levels


Adheres directly to masonry

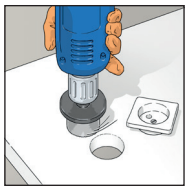
Breathable

How to use

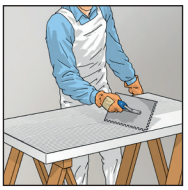
1. Fill cracks, chipped surfaces and significantly uneven surfaces with ERFURT System Adhesive SR 6 PRO.

2. Fit a sealing tape to the floor, ceiling and adjoining walls and to all moving structures, such as windows, for acoustic and mechanical decoupling.

3. Use a Stanley knife to scarify the climate panel and break along an edge or cut with a saw.

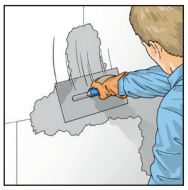


4. Use a keyhole saw or similar to cut openings for switches and sockets before fitting the panels, and use appropriate flush-mounted boxes.

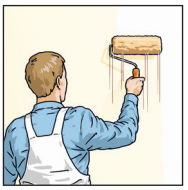


5. Use a toothed trowel/toothed comb to comb adhesive onto the climate panel (10 mm toothing/C5).

6. Press the climate panels onto the wall, offset above each other (min. 20 cm), with moderate pressure. Avoid cross joints and gaps. Remove excess adhesive along the edges.



7. Fill the joints between the panels flush with ERFURT System Adhesive SR 6 PRO.



8. Prime the climate panels with paste. (only when wallpapering).

9. Climate panels can be covered with all breathable wallcoverings, plasters and coating materials etc. without the need for reinforcement.

KlimaTec PRO

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Technical Data Sheet 07/2025

Product description

ERFURT-KlimaTec KP 1000 + PRO

Manufacturer:

ERFURT & SOHN KG • Hugo-Erfurt-Strasse 1
42399 Wuppertal • GERMANY • www.erfurt.com • info@erfurt.com

Raw materials/Manufacture

ERFURT-KlimaTec KP 1000+ PRO is a 1.0 cm thick climate panel manufactured from expanded glass granulate. The front side is laminated with a glass nonwoven fabric and the rear side with fabric webbing.

Product specification

- Order no. 1003053
- Panel dimensions: 1.20 m long x 0.80 m wide x 1.0 cm thick
- Panels/pallet: 120 panels
- Weight approx. 5.3 kg/panel
- Thermal conductivity: λ = approx. 0.09 (m²K)/W
- Reaction to fire: A2-s1,d0 according to DIN EN 13501-1, B1 according to DIN 4102-1
- Water vapour diffusion resistance factor: μ = approx. 15
- Water vapour diffusion sd value: approx. 0.15 m
- pH: approx. 9
- Tested according to the AgBB standard: extremely low-emission

Product features

- Mould-inhibiting
- Raises the wall surface temperature
- Energy-saving
- Faster heating-up of rooms
- Alkaline
- Breathable
- Suitable for damp environments and dry lined walls
- Adheres to masonry, concrete, and plaster
- Evens out uneven base surfaces
- Pressure-resistant
- Easy to cut
- Reinforced by webbed laminate on the rear
- A wealth of design options, for example with breathable wallcoverings, plaster etc.
- No calculation of dew water certification according to DIN 4108-3 required (Comply with additional requirements for protection from driving rain)

Material testing

Check the panels for possible material defects and damage before using.

Dimensional tolerances

- Thickness +/- 1 mm
- Width +/- 4 mm
- Length +/- 5 mm
- Evenness ≤ 5 mm

Application/use

ERFURT-KlimaTec KP 1000+ PRO is used for mould prevention and mould remediation. The breathable panel raises the surface temperature of the wall and has a moisture-regulating effect. Professionally remove all signs of mould before applying. Call in a specialist to clarify and, if necessary, rectify the cause of mould formation. The climate panel creates flat and pressure-resistant finishes on uneven base surfaces and provides many opportunities for (breathable) wall design, whether using wallcoverings, plaster or other coating materials.

Base surface

ERFURT-KlimaTec KP 1000+ PRO can be used on all firm base surfaces in accordance with DIN 18157, Part 1, e.g. concrete, cellular concrete, plaster (interior plaster in accordance with 18550-2:2018-01 and DIN EN 13914-2:2016-2017), masonry etc. Level any unevenness in the base surface with ERFURT System Adhesive SR 6 PRO up to a thickness of 15 mm on walls and ceilings before laying the panels.

Ensure that the base surface is dry, firm, free of continuous cracks, and with no separating substances, such as oils, coatings, layers of sinter, and loose material. Remove old wallcoverings and dirt. It should essentially have a sealed surface and a strength corresponding to the type of surface. It is essential, when laying panels, to pre-treat the base surface and work in accordance with DIN 18157, Part 1.

Pre-treat absorbent base surfaces with a solvent-free base primer.

Adhesion on plaster: ensure that the plaster is dry, dust-free, solid, and firm before starting to apply. If in doubt, use a CCM instrument to check that the humidity is no higher than 1 mass percent. Treat the gypsum plaster (single layer, d ≥ 10 mm) with a primer suitable for gypsum base surfaces.

How to use

To avoid sound transfer, fit a sealing strip all around wall joints and movable elements, such as floating screed, windows etc. Use a Stanley knife to scarify ERFURT-KlimaTec KP 1000+ PRO, break along an edge, and cut through the fabric webbing. Alternatively use a saw to cut the climate panels. Use a keyhole saw to cut openings for switches and sockets before fitting the panels and use appropriate back boxes.

Use ERFURT System Adhesive SR 6 PRO to bond the climate panel (mixing ratio: 8.5 l water with 15 kg ERFURT System Adhesive SR 6 PRO). Use a toothed trowel/toothed comb to evenly comb adhesive onto the rear of the climate panel (10 mm toothing/C5: equates to approx. 2.2 kg/m²). The adhesive can also be applied to the wall side with uneven base surfaces. Make sure that the entire surface of the panel lies against the base surface and avoid hollows. Press ERFURT-KlimaTec KP 1000+ PRO climate panels onto the wall offset above each other (min. 20 cm) with moderate pressure. Avoid cross joints and gaps. Remove excess adhesive along the edges. Fill the gaps / joints between the panels flush with ERFURT System Adhesive SR 6 PRO.

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When bonding to the ceiling, also apply ERFURT System Adhesive SR 6 PRO to the ceiling. Ensure that the entire climate panel is in contact with the base surface and avoid hollows. Apply with moderate pressure to the ceiling. The joints of ERFURT-KlimaTec KP 1000+ PRO climate panels need to be offset (min.20 cm), avoiding cross joints. While the adhesive is drying, use assembly supports to hold the panels in place. System Adhesive SR 6 PRO is used to hold the climate panels on the ceiling. Once the adhesive has cured, use plugs to mechanically hold the panels in place for extra safety. Use nylon plugs, suitable for through-hole assembly (e.g. Fischer Universal plugs UX 6 x 35) and stainless steel screws with a countersunk head and grooves on the underside of the head (e.g. Spax T Star Plus stainless steel 5 x 50). Use a 6 mm drill bit to drill the hole, insert the plug into the drill hole and screw the screws into the hole with torque control to ensure that the countersunk head disappears 1 mm into the panel.

Position the screws along the edges of the panel allowing a minimum of 5 cm from the edges of the panel. Fill all panel joints and plug holes with System Adhesive SR 6 PRO. Then apply a final coating in the same way as you would for walls.

Coating

Base surface for coatings
Apply ERFURT System Adhesive SR 6 PRO to the entire surface of the climate panels if painting. Then use a maximum thickness of 2 mm of SR 6 PRO to fill in the gaps. The required drying time of the filler before painting depends on the thickness of the layer. Allow one day's drying time for every millimetre of layer thickness. Once dry, paint the surface with all (breathable) washable emulsion paints that comply with EN 13300.

Base surface for wallpaper
Before wallpapering, prime the panels with a paste primer according to the manufacturer's instructions (e.g. Metylan NP Hohe Klebkraft High Adhesion or PUFAS SK High-Performance Adhesive). ERFURT-KlimaTec KP 1000+ PRO climate panels can be wallpapered over with all breathable wallcoverings, such as ERFURT-Rauhfaser woodchip, ERFURT nonwoven woodchip, ERFURT-Vliesfaser nonwoven etc. At a minimum, use nonwoven paste, such as Metylan NP Hohe Klebkraft High Adhesion or PUFAS SK High-Performance Adhesive, on the climate panels.

Base surface for plaster
ERFURT-KlimaTec KP 1000+ PRO climate panels can be coated with all mineral-based interior types of plaster. Please refer to the plaster manufacturer's information when using interior plasters.

Storage

Store the panels flat and dry.

Quality seal

ERFURT-KlimaTec KP 1000+ PRO wallcoverings are made of high-grade raw materials that meet all relevant standards and comply with the most exacting quality requirements. Various product properties of ERFURT-KlimaTec KP 1000+ PRO are regularly tested and certified by independent test institutes. The following tests/certifications are available:

- Fire behaviour classification: B-s1,d0 according to DIN EN 13501-1
- Thermal conductivity: λ = approx. 0.075 W/mK
- Thermal insulation resistance: R = approx. 0.29 (m²K)/W
- Water vapour diffusion resistance factor: μ = approx. 9
- Water vapour diffusion sd value: approx. 0.23 m
- pH: approx. 9

Important note

Check the existing building for the permeability of driving rain, structural faults, and minimum thermal insulation. Seek advice from a professional in the event of any abnormalities (e.g. moisture and/or mould).

Refer to the information in the ERFURT Ventilation Guidelines, among others, to reduce peaks of moisture in the air. The manufacturer cannot guarantee the material properties of the product if the above points are not complied with. Slight "cupping" of the panels is within manufacturing tolerances. The panel will sit flat when laid into the bed of adhesive. Ideally, cut the panels on the woven fibreglass side.

Take appropriate measures to protect surfaces, specifically glass, ceramic, natural stone etc., which are not to be treated. Provide appropriate technical protective equipment (e.g. dust mask, safety goggles) and, if necessary, technical measures (e.g. extraction) when handling.

The above information corresponds to the current state of the art. This information does not claim to be complete. As the application and use of our products lies outside our influence, and varying circumstances of use, modes of working and materials require their use to be adapted to the respective working conditions, no legal obligation can be derived from this technical information. All previous technical data sheets lose their validity with this edition.

Please contact our technical hotline +49 (0)202 6110 375 or e-mail awt@erfurt.com should you have any technical questions about our products or the use of our products.

Acoustic values

Sound absorption level according to DIN EN ISO 11654

Frequency	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
Alpha-p *[1]	0.05	0.1	0.25	0.3	0.3	0.4

[1] The stated sound absorption level applies to uncoated KlimaTec KP 1000+ PRO
Alpha-w value = 0.3

Frequency	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
Alpha-p *[2]	0.05	0.15	0.2	0.05	0.05	0.05

[2] The stated sound absorption level applies to the following construction:
KlimaTec KP 1000+ PRO, Variovlies ECO 150 + PRO acoustic paint.
Alpha-w value = 0.1 (L)

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