



# ERFURT KlimaTec IP 2500+/IP 3500+

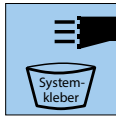
**ERFURT**  
WÄNDE ZUM WOHLFÜHLEN

INNENWAND-  
SYSTEME

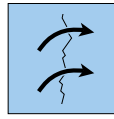
## Product benefits



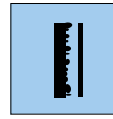
Climate-  
friendly



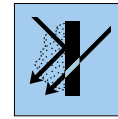
System  
Adhesive  
SR 6



Covers  
cracks



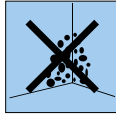
Adheres  
directly to  
masonry



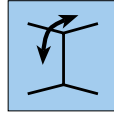
Breathable



Energy-  
saving



Mould-  
inhibiting



For walls  
and ceilings

## How to use



1. Fill cracks, chipped surfaces and seriously uneven surfaces with System Adhesive SR 6.



2. Use a saw to cut interior insulation panels.



3. Use a keyhole saw to cut openings for sockets before fitting the panels and use appropriate back boxes.



4. Fit a sound insulation strip around the window joint and around all movable elements, such as floating screed, windows.



5. Use a toothed trowel/toothed comb to comb adhesive onto the interior insulation panel (min. 8 mm tothing).



6. Press the interior insulation panels with moderate pressure onto the wall offset to each other. Avoid cross joints and gaps. Remove excess adhesive along the edges.



7. Fill the joints between the panels with ERFURT-KlimaTec SR 6 system adhesive. Reinforce cracks with crack repair tape or provide full-surface reinforcement if using wallcoverings that do not cover cracks, like paper wallpapers.



8. Prime the interior insulation panel with paste.



9. Interior insulation panels can be covered by all breathable wallcoverings capable of covering cracks without additional reinforcement.

KlimaTec

PRO

[www.erfurt.com](http://www.erfurt.com)



## Product Description

### ERFURT-KlimaTec IP 2500+/3500+

#### Manufacturer

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

#### Raw materials/Manufacture

ERFURT KlimaTec IP 2500+ and IP 3500+ are 2.5 cm and 3.5 cm thick interior insulation panels, made from a 1 cm thick expanded glass granulate panel and a special nonwoven material.

#### Product data and key facts

##### ERFURT-KlimaTec IP 2500+

- Order no. 1002690
- Panel dimensions: 1.20 m long x 0.80 m wide
- Panels/pallet: 40 panels
- Weight: 5.5 kg/panel
- Fire rating: C-s1,d0 (fire-retardant, B1 according to DIN 4102)
- Thermal resistance R 10\*: 0.3 - 0.5 (m<sup>2</sup>K)/W
- Water vapour diffusion sd value: 0.24 m (with wallpaper and paint)

##### Expanded glass granulate layer

- Layer thickness: 1.0 cm
- Diffusion resistance  $\mu$ : 7
- Thermal conductivity  $\lambda$  10\*: 0.096 W/mK
- Raw density: approx. 438.6 kg/m<sup>3</sup>

##### Textile nonwoven insulation material (PET)

- Panel thickness: 1.5 cm
- Diffusion resistance  $\mu$ : 3
- Thermal conductivity  $\lambda$  10\*: 0.035 W/mK
- Raw density: approx. 66.6 kg/m<sup>3</sup>

#### Product data and key facts

##### ERFURT-KlimaTec IP 3500+

- Order no. 1002694
- Panel dimensions: 1.20 m long x 0.80 m wide
- Panels/pallet: 30 panels
- Weight: 6.0 kg/panel
- Fire class: C-s1,d0 (fire-retardant, B1 according to DIN 4102)
- Thermal resistance R 10\*: 0.8 (m<sup>2</sup>K)/W
- Water vapour diffusion sd value: 0.5 m (with wallpaper and paint)

##### Expanded glass granulate layer

- Layer thickness: 1.0 cm
- Diffusion resistance  $\mu$ : 7
- Thermal conductivity  $\lambda$  10\*: 0.096 W/mK
- Raw density: approx. 438.6 kg/m<sup>3</sup>

##### Textile nonwoven insulation material (PET)

- Panel thickness: 2.5 cm
- Diffusion resistance  $\mu$ : 3
- Thermal conductivity  $\lambda$  10\*: 0.035 W/mK
- Raw density: approx. 72.0 kg/m<sup>3</sup>

\* Measurement of the entire composite sample under room conditions

#### Dimensional tolerances

- Thickness +/- 3 mm
- Width +/- 4 mm
- Length +/- 5 mm
- Evenness  $\leq$  5 mm

#### Product features

- Highly thermal insulating
- Minimal layer thickness
- Breathable
- Simple and fast to use
- Versatile design options, i.e. it can be wallpapered over
- No calculated dewpoint certificate needed in line with DIN 4108-3: 2012-01

## Application/Handling

ERFURT-KlimaTec IP 2500+ and IP 3500+ are used for thermal insulation of the insides of exterior walls. Thanks to their insulating properties, the interior insulation panels improve the U-value of existing constructions.

Adhere to the minimum thermal insulation levels for buildings as set out in DIN 4108 and other applicable regulations.

Seek advice from a professional in the event of any obvious structural problems, like moisture and/or mould, and with half-timbered buildings and visible masonry.

#### Preparation of the base surface

ERFURT-KlimaTec IP 2500+ and IP 3500+ can be used on all plasters (internal plaster as per DIN V 18550). Ensure that the base surface is dry, clean, solid and firm. Remove old wallcoverings, loose wallcoverings, vapour-tight coatings and dirt. Prime extremely absorbent, chalky and sandy base surfaces with a solvent-free primer. Fill any cracks, chipped surfaces and seriously uneven surfaces with ERFURT-KlimaTec SR 6 system adhesive.

##### Adhesion on gypsum plaster:

Ensure that the plaster is dry, dust-free 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,  $d \geq 10$  mm) with a primer suitable for gypsum base surfaces to equalise the absorbency, providing no water-repellent (hydrophobic) gypsum plaster is used.

Apply System Adhesive SR 6 to the entire surface of the interior insulation panels (minimum 8 mm toothing) using normal techniques. System Adhesive SR 6 transfers only very little moisture to the gypsum plaster and therefore does not affect its crystal structure.

##### Bonding to clay plaster:

Contact Erfurt Application Engineering with clay base surfaces.

#### How to use

Use a saw (hand saw, jig saw, circular saw) to cut ERFURT-KlimaTec IP 2500+ and IP 3500+ interior insulation panels. Use a keyhole saw to cut openings for sockets before fitting the panels.

To avoid sound transfer, fit a sound insulation strip all around wall joints and movable elements, such as floating screed, windows etc. Apply interior insulation panels offset to each other ( $\geq 25$  cm) with moderate pressure onto the wall and allow them to float into position. Avoid cross joints and gaps. Remove excess adhesive along the edges.

Press the next interior insulation panel with a gap of approx. 2 cm from the panel already bonded to the wall, allow it to float into position and carefully press against the bonded panel (butt joint lower nonwoven insulation). Fill the joints (V-joints) between the panels flush with ERFURT-KlimaTec SR 6 system adhesive.

Insulate integral and/or edging components with the ERFURT-KlimaTec DK 2 insulating wedge, with the ERFURT-KlimaTec LP 1000+ soffit panel or with Interior Insulation Panels IP 2500+/IP 3500+.



When using ERFURT-KlimaTec IP 2500+ and IP 3500+ on ceilings, fix the interior insulation panels with appropriate plastic rawplugs and corrosion-proof screws. To avoid protruding wall plug heads, use an insulation cutter or similar to make a cavity prior to inserting the wall plugs. Then fill in the area around the wall plugs with ERFURT-KlimaTec SR 6 system adhesive. Use a suitable sealant to make joints with walls, ceilings, floors, cut-outs and openings (e.g. sockets) air-tight and acoustically decoupled. Use appropriate back boxes (e.g. Kaiser interior insulation box) for sockets, switches etc.

## Adhesive

Use ERFURT-KlimaTec SR 6 system adhesive to affix the interior insulation panels. Apply the adhesive evenly directly onto the interior insulation panels with a toothed trowel or toothed comb (minimum 8 mm toothing). Use approx. 1.8 to 2.2 kg/m<sup>2</sup> depending on the base surface.

## Base surface for coatings

Apply ERFURT-KlimaTec SR 6 system adhesive and reinforcement fabric when painting the surfaces. Alternatively, use a filler (e.g. Ardex 826/828) to fill the joint that has already been filled with ERFURT-KlimaTec SR 6 system adhesive until flush and then cover the areas with a crack-covering flat nonwoven wallcovering (e.g. ERFURT-Variovlies).

## Base surface for wallpaper

Before wallpapering, prime the interior insulate panels with a paste primer according to the manufacturer's instructions (e.g. Metylan NP Power Granulate in a ratio of 1:20). Fill the joint you have just filled with SR 6 flush with a filler containing cement (e.g. Ardex R 1).

You can apply all crack-covering, breathable wallcoverings, like ERFURT-Variovlies, ERFURT-Vliesfaser, ERFURT-Vlies-Rauhfaser, to ERFURT-KlimaTec IP 2500+ and IP 3500+ interior insulation panels. Use the adhesive recommended for the type of wallcovering, but at the very least nonwoven adhesive at a ratio of 1:10, e.g. Metylan NP New Plaster Paste, to bond to the interior insulation panels.

## Base surface for plaster

Reinforce the surfaces with ERFURT-KlimaTec SR 6 system adhesive and reinforcement fabric. Alternatively, reinforce the V-joints with a fibreglass webbed joint tape, like Kobau, in line with the manufacturer's instructions.

ERFURT-KlimaTec IP 2500+ and IP 3500+ interior insulation panels can be coated with all mineral interior types of plaster.

## Important note

Check the exterior of the area to be treated for penetration of wetness or moisture. Eliminate any structural defects (thermal bridges).

Seek advice from a professional in the event of any obvious structural problems, like moisture, mould and thermal bridges.

Briefly air the room for 5 - 10 minutes several times a day with the windows wide open to avoid peaks of moisture. Refer to the advice from the Federal Environment Agency on heating and ventilation.

The manufacturer cannot guarantee the material properties of the product if the above points are not complied with.

## Safety note

Take appropriate measures to protect surfaces, specifically glass, ceramic, natural stone etc., not to be treated. Protect eyes and skin from splashes. Keep out of the reach and sight of children.

### Made in Germany

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