



# KEIM INDOOR CLIMATE SYSTEM

HEALTHY. INTERIOR. LIVING.



# HEALTHY INDOOR CLIMATE FOR WELL-BEING



## FEELING GOOD INSIDE

The indoor climate significantly determines our well-being indoors. It is the reason why some rooms seem cosy and inviting to us, while others seem rather uncomfortable or uninviting. No matter how appealing the appearance and colour of a home is, whether it is beautifully lit and furnished, if the walls are damp and mould forms, our wellbeing is affected. The comfort climate indoors is essentially dependent on factors such as:

- Room temperature
- Surface temperature of the walls
- Humidity
- Air circulation
- Air cleanliness
- Pollutants and allergens
- Draught
- Noise, light

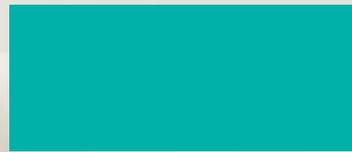
The interplay of these criteria determines how comfortable we feel in confined spaces.

## FEEL GOOD INTERIORS

If the indoor climate is poor it has a major effect on the indoor living and working environment. In the worst case this can create a considerable health risk and, in the medium to long term, result in allergies and potentially serious illnesses such as asthma or respiratory diseases. These can be particularly harmful for little children and elderly people with weak immune systems.

KEIM has been developing and producing healthy building materials for decades. More than 60 KEIM products have been awarded the Gold Cradle to Cradle certification, the natureplus certification and are certified "Suitable for Allergy Sufferers". KEIM Indoor Climate System significantly improves air quality and gives interiors a pleasant sense of well-being.

# COM OPTIMUM

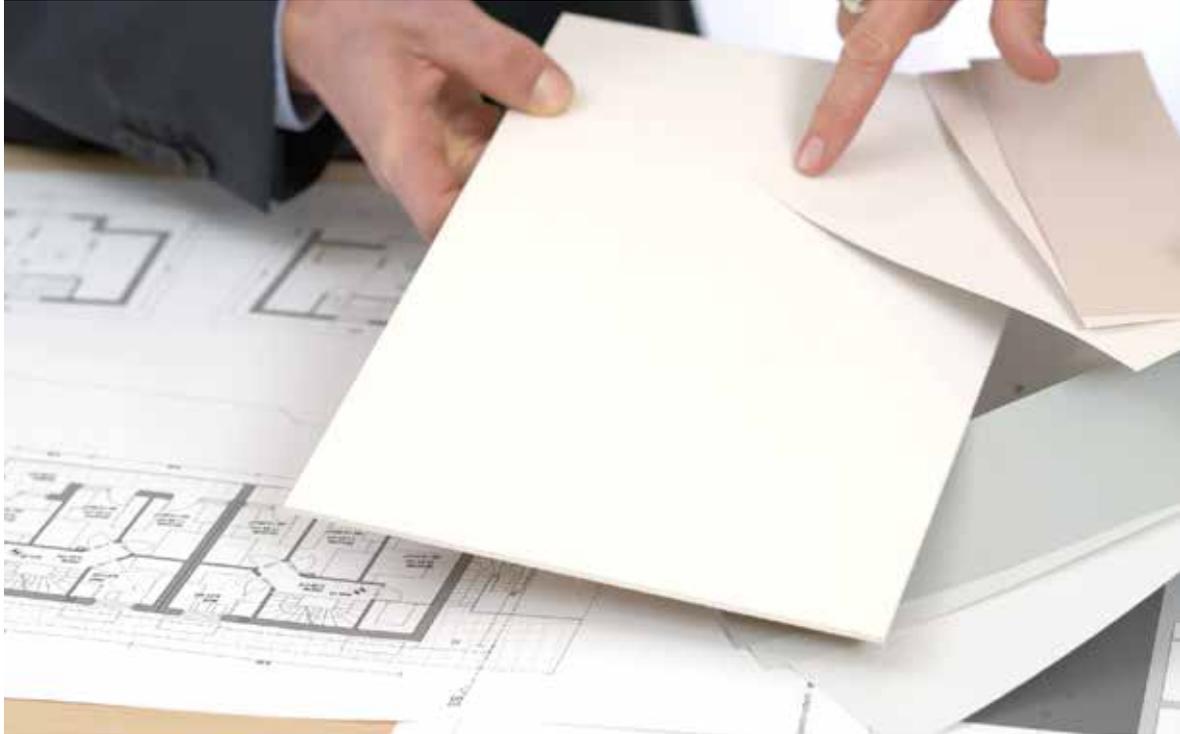


# THE KEY TO COMFORTABLE LIVING: A HEALTHY INDOOR CLIMATE

Feeling at ease and relaxed in your home is highly dependent on the environment around you, helping people to cope with stress and the demands of everyday life.



# HEALTHY AND ENERGY SAVING – INDOOR CLIMATE ADDS VALUE



## **CONSULT, PLAN, FEEL GOOD**

Careful planning, taking all factors into account, ensures that you can create a pleasant and healthy climate indoors.

The key factors for a healthy indoor climate are thermal insulation, a well planned wall structure and healthy interior plaster and paint. With the KEIM Indoor Climate System, humidity can be regulated and air quality significantly improved. No pollutants are released into the air and the system effectively protects against mould for a long time.

There are also no limits to colour design. And at the same time the KEIM Indoor Climate System helps to save energy. Using thin insulation layers increases the temperature on the interior wall surface. This increases the level of comfort and the heating output can be reduced by a few degrees.

## **KEIM INDOOR CLIMATE SYSTEM – BENEFITS**

- Simple structure, easy handling
- Hydroactive, mineral, biocide-free
- Increase of surface temperature
- Permeable and capillary-active
- Attractive appearance and colour design
- Complete product range tested for the system
- Non-combustible
- No vapour barrier required
- Protection against mould



# IT ALL DEPENDS ON THE RIGHT INTERACTION

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## **COATING, RENDER, INSULATION PANEL**

KEIM Indoor Climate System consists of various individual products which provide individually adapted design options in various combinations.



## COATING

In principle, all KEIM interior paints can be used in the KEIM Indoor Climate System. For mould prevention and remediation, we recommend:

**KEIM MYCAL®-TOP**, the highly specialised silicate interior paint which is permeable and moisture-regulating, and due to its mineral alkaline formulation does not provide a nutrient base for new mould growth. It acts mould-inhibiting in a natural way.

## RENDER

As the central component of the KEIM Indoor Climate System, there is a render that can do it all – bonding, reinforcing and rendering.

**KEIM MYCAL®-POR**, the mineral hydroactive special lime render for interior use is our all-rounder. Use it purposely as an adsorption and moisture-regulating base for bonding, reinforcing and rendering or simply as a base coat render – one product for all.

For more information as well as details on the product-specific features, please, scan the QR-Code or visit at [www.keim.com](http://www.keim.com)



## INSULATION PANEL

Depending on which functional requirement the system has to fulfil and which structure is desired, there are different climate and insulation panels available.

**KEIM MYCAL® CLIMA-CS**, the lightweight hydro-active calcium silicate panel which increases the wall surface temperature, prevents condensation and mould growth. This is already preprimed on one side, so that the reinforcement can be directly applied.

**KEIM MYCAL®-LAVA**, the mineral, capillary-active, fibre-free, alkaline and non-combustible indoor climate panel made of the natural product Perlite. This is efficient in terms of moisture regulation and thermal insulation.

**KEIM IPOR® TIPWALL**, the fibre-free, porous, purely mineral, monolithic interior insulation panel made of calcium silicate hydrates. This is particularly suitable for saving heating costs.

**WOOD FIBRE INSULATION PANEL**, the ecological interior insulation panel made of renewable raw materials which is permeable and moisture regulating and has an excellent heat storage capacity.



KEIM Indoor Climate System provides the right solution for every function. Accessories such as insulation wedges and reveal panels can universally be used.

# KEIM INDOOR CLIMATE – ONE SYSTEM, MANY FUNCTIONS

Whether it is a pure painting solution with KEIM Mycal-Top or mould remediation or interior insulation with the KEIM indoor climate system, the following table will help you make the right choice for each application case.

STRUCTURE / SYSTEM						
ADHESIVE			KEIM Mycal-Por			
INSULATION PANEL			KEIM Mycal Clima-CS	KEIM Mycal-Lava	KEIM iPor TIPwall	Wood fibre insulation
REINFORCING			KEIM Mycal-Por			
TOP COAT RENDER		KEIM Mycal-Por	KEIM Mycal-Por			
COATING	KEIM Mycal-Top	KEIM Mycal-Top	KEIM Mycal-Top and all KEIM interior paints			
FUNCTION						
Healthy indoor air, more comfort	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
Mould protection	●○○○○	●●○○○	●●●●●	●●●●●	●●●●○	●●●●○
Surface temperature increase	○○○○○	○○○○○	●●●○○	●●●●●	●●●●●	●●●○○
Thermal protection	○○○○○	○○○○○	●○○○○	●●●●○	●●●●●	●●●○○

## MOULD REMEDIATION AND PROTECTION

For professional remediation after mould infestation, our KEIM Mycal-System provides you with additional ecologically safe products, such as spore binding and mould removal products. For more information on the KEIM Mycal mould remediation system, please scan the adjacent QR code or visit [www.keim.com](http://www.keim.com)



# SIMPLE AND FAST APPLICATION



1

## SUBSTRATE

The substrate must be clean, level, dry, sound and free from adhesion-reducing residues. If necessary, pretreat or prime. Highly absorbent substrates must be prewetted.



4

## REINFORCING

Apply KEIM Mycal-Por onto the panel with a 10 mm toothed trowel. Embed KEIM Glass fibre mesh in the top third of the render layer. Allow the mesh sheets to overlap 10 cm.



2

## CUTTING

Depending on the thickness of the panel, cut to size with a cutter knife or saw. For HFD panel use a saw with a serrated blade. Deburr the cut edges



5

## RENDERING

KEIM Mycal-Por is also suitable as finishing render and can be freely designed with its fine structure. Alternatively, all KEIM finishing renders and smoothing are possible.



3

## BONDING

Apply KEIM Mycal-Por over the entire surface with a 10 mm toothed trowel using the comb bed method. Float the panel with light pressure. Use insulation wedges and reveal panels as required



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## COLOUR DESIGN

All KEIM interior paints are ideally suited to meet every design wish.



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**KEIM. COLOURS FOR EVER.**