



*innovative building concept*

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*benqu<sup>®</sup>therm*

Insulating damp wall render / plaster panel

*The new mineral-based, insulating damp wall render/plaster system in a panel format.*

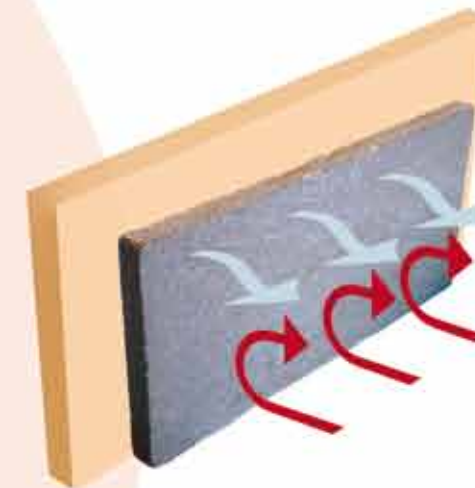


Renovating and insulating old building with damp and salt-loaded walls is a true challenge for any building owner or craftsman. No matter what measures are at hand, the building skin – renders and plasters – are always a pivotal issue, since this is where the moisture rears its ugly head. Reverting to traditional restoration renders and plasters is oftentimes counterproductive since the areas of application, according to standard guidelines, are either limited to mildly damp and salt-loaded masonry or require time-consuming and costly supporting measures. An all too common sight: significant amounts of money and labor are expended to ward off rising capillary moisture, yet in the end, the masonry remains damp.

ibc now presents a practical advancement and solution to the problem:

*benqu<sup>therm</sup>*<sup>®</sup>.

benqu<sup>therm</sup><sup>®</sup> is a damp wall render/plaster panel and insulation panel in one. The mineral-bound product is made with highly insulating, ecologically sound, mineral aggregates. benqu<sup>therm</sup><sup>®</sup> comprises myriad tiny and microscopic air pores. The special system of micropores and the resulting enlarged evaporation surface area allows moisture to easily escape in the form of water vapor. The level of harmful mildew spores and bacteria are reduced significantly in comparison to traditional renovation systems, thereby improving the indoor living climate markedly.



benqu<sup>therm</sup><sup>®</sup> facilitates the transport of moisture out of walls in the form of water vapor. benqu<sup>therm</sup><sup>®</sup> is also thermally insulating and helps keep rooms cozily warm while saving heating costs.





## *The source of the problem*

In addition to damage to the exterior building skin, there are basically three types of wall moisture, which generally appear in combination:

- rising capillary moisture
- hygroscopic moisture (caused by salt-loading) and
- condensation moisture

Our damp wall renders/plasters do not differentiate between the various kinds of moisture. Regardless of the source, the interconnected system of micropores facilitates the transport of moisture to the wall surface in the form of water vapor. The render/plaster surface remains dry and free of efflorescence. This provides craftsmen and owners with the peace of mind that no potential source of moisture has been neglected – unlike traditional approaches that address only rising capillary moisture.

Horizontal waterproofing is an absolute prerequisite when applying traditional renovation renders/plasters to damp walls. This step is superfluous when using benqtherm® insulating damp wall render/plaster panels.



## *How it works*

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The benqutherm® insulating damp wall render/plaster panel system builds on a special micropores interconnected with an extremely fine capillary network. The vast volume of air pores creates a greatly expanded evaporation surface area. Accumulated moisture thus evaporates faster than the render/plaster panels absorb it, while at the same time almost entirely preventing harmful substances like salts from entering the panel.

The result: benqutherm® panels stay dry and retain their impressive functionality over the long term.

The effectiveness and long-term functionality of our damp wall render/plaster systems has been extensively proven in the field (see reference list).





## *Panel production*

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benqutherm® is a mineral-bound product made with highly insulating, ecologically sound, mineral aggregates. The insulating render/plaster panels for all kinds of damp and salt-loaded masonry are suitable for both interior and exterior application.

We ensure the high quality standards of our insulating damp wall render/plaster panels through strict internal production quality controls, as well as through independent, external monitoring by the LGA.

benqutherm® comprises highly insulating, mineralbased, non-flammable aggregates. This allows us to combine the special properties of our innovative damp wall renders/plasters with superb thermal insulating characteristics and excellent fire resistance (important for interior applications).

benqutherm® unites all of these features in a single panel.



## *Areas of application and Application*

benqutherm® insulating damp wall render/plaster panels are suitable for repairing and renovating render and plaster on damp (even partially saturated) building fabric, regardless of whether the source is rising capillary moisture, hygroscopic moisture (extreme salt loading) or condensation. benqutherm® can be used for all kinds of masonry, both interior and exterior, as well as for cellars.

In combination with our benqusan®-MZ mortar used as a bond and key coat, leveling coat and panel adhesive, our benqutherm® insulating damp wall render/plaster panel system is very quick, easy and safe to work with.

There are no tedious drying phases before or during the application of the panels. The render/plaster surface can be built-up quickly and without limitations.

1. Apply bond and key coat and adhesive layer of benqusan®-MZ damp wall render/plaster full cover onto the pre wetted wall
2. Press the benqutherm® insulating damp wall panels into the evenly applied (without hollow spots) benqusan®-MZ coat edge to edge
3. Once the benqusan®-MZ has set and hardened, wet the benqutherm® panels and put on a finishing coat of benqusan®-FKZ, or other vaporpermeable commercial finishing render/plaster refined using our benqusan®-PUR active agent, together with a plastering mesh.





## *Features at a glance*

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- benqutherm® insulating render/plaster panels are suitable for all kinds of damp and salt-loaded walls, both interior and exterior, as well as cellars
- The insulating damp wall render/plaster panel system requires no supporting measures, since the network of micro-pores creates a greatly expanded evaporation surface area
- The functionality of the damp wall render/plaster panel system is independent of the degree of moisture and salt loading
- Significant reduction of harmful mildew spores and bacteria in comparison to traditional renovation systems
- Quick and easy application
- No construction-delaying ventilation of masonry required
- No waiting periods between the individual work steps, thus no unnecessary delays
- Eliminates sources for error, since the benqutherm® system can accommodate all three types of moisture in masonry (rising capillary moisture, hygroscopic moisture and condensation)
- The effectiveness and long-term functionality of our damp wall render/plaster systems has been extensively proven in the field (see reference list).
- Masonry in direct contact with earth and non-pressing water can be cost-effectively repaired



## Reference list

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- Museums Quarter
- Old City Hall
- St. Maria del Gracia Basilica
- Trading House
- Hachez chocolate factory
- City wall
- Henkel champagne wine cellar
- Gisela School
- Parish church
- Parish church
- Parish church
- Vicarage
- Seminary
- Parish church
- Ungererstraße apartment block
- Castle Stable Chapel

*Vienna*

*Linz*

*Milan*

*Bremen*

*Bremen*

*Mindelheim*

*Passau*

*Lalling*

*Hohenau*

*Hutthurm*

*Kirchberg i. Wald*

*Passau*

*Schönberg*

*Munich*

*Kissing*





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