



CAVIPOR

CLAY FOAM INSULATION



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BASF

We create chemistry



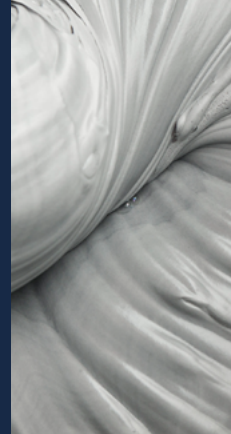
Cavipor[®] Clay Foam Insulation for sustainable renovation

Cavipor is a clay mineral-based insulation foam system which has been developed specifically for the energy-efficient renovation of double-leaf masonry. The foam is continuously produced on site from three water-based components and air.



Due to its high mineral content, Cavipor is non-combustible, low in emissions, water-repellent, and at the same time vapor permeable. This keeps the masonry breathable and optimizes living comfort.

The unique combination of product features makes Cavipor an innovative and sustainable solution for excellent insulation throughout its entire life cycle.





Cleanly processable

The water-based components can be transported in a space-saving manner and allow for easy and clean work on the construction site – completely dust and fiber-free.

Space-saving

Physical foaming with air creates a foam that exceeds the original volume tenfold.



Conservatively applicable

The fresh foam is injected into the cavity through small drilling holes.

Drill hole diameter: approx. 12 mm

Non-expanding

After injection, the foam does not expand further or generate additional pressure on the masonry.

Gap-filling

Clay foam has excellent flow properties and perfectly adapts to the contours within the cavity. The foam fully surrounds installations and tight areas, including mortar protrusions and anchors. Clay Foam is self-sealing: The foam effectively seals even small holes or cracks in masonry and prevents draughts. No preliminary work or reworking is necessary.

< 120 sec setting time





cleanly processable



insulating



vapor permeable



safe



sustainable



water-repellant



space-saving



sound-absorbing



conservatively applicable



non-combustible



gap-filling



fast



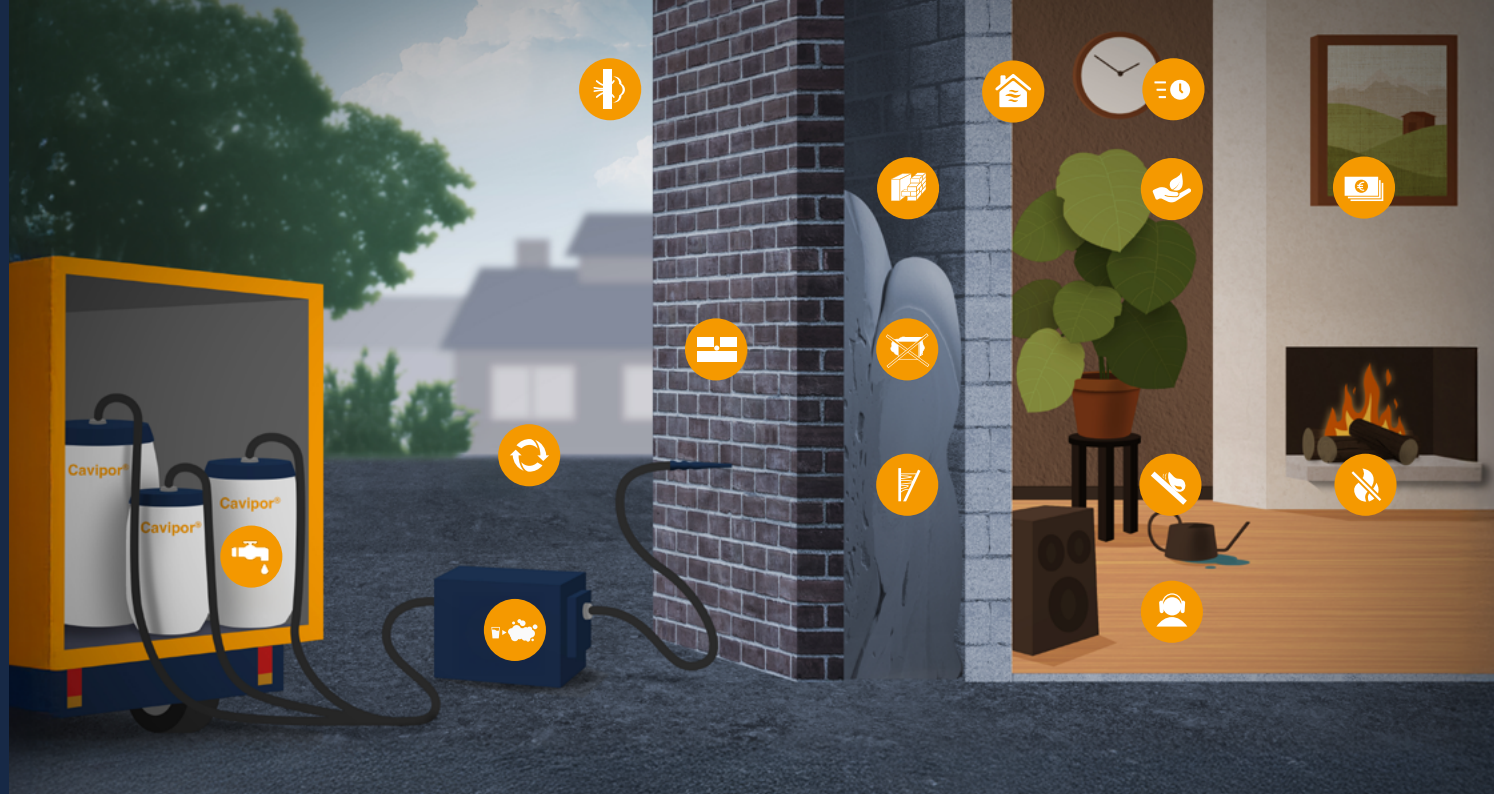
not selfexpanding



economic



durable





Insulating

Clay foam has outstanding insulating properties.

$\lambda_N = 0,034 \text{ W/m}\cdot\text{K}$
thermal conductivity (DIN EN 12667)

Sound-absorbing

Ambient noise is noticeably reduced using this open-cell foam insulation.

$R_w = 14 \text{ dB}$ sound reduction index
(according to DIN EN ISO 10140-2)

Water-repellant

Despite its open-cell structure, clay foam is hydrophobic and does not absorb liquid water.

$w_{lp} < 1 \text{ kg/m}^2$ water absorption
(according to DIN EN 12087)

Vapor permeable

Clay foam is open to vapour diffusion. It can absorb and release moisture, thereby helping to regulate the indoor climate.

Vapor Permeability $\mu = 3$





Non-combustible

With a content of 90% mineral components, dried clay foam is non-combustible - without the use of additional flame retardants.

Material classification A2-s1, d0 (DIN EN 13501-1)

Recyclable

During dismantling, clay foam can be easily disposed of with construction waste or reused as sub-base material.



Safe

Clay foam consists of harmless raw materials and is classified as a “very low-emission building material” EC1 PLUS according to GEV-EMICODE® standards.

Economical

The cavity wall insulation with clay foam increases the building’s energy efficiency, which can lead to significant cost savings.





Do you need further information?
Please get in touch with us.

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cavipor.com