



# Fixit 222


## Aerogel High Performance Insulating Plaster

**Areas of use:** The Fixit Aerogel plaster is an environmentally-friendly, biologically compatible high performance insulating plaster for indoor and outdoor applications. Brickwork, sand-lime bricks, natural stonework, quarry stone walls as well as raw shuttered concrete are all suitable substrates. Strongly absorbent, or variably absorbent surfaces require the application of Fixit 211 or Fixit 281 CalceClima® throw-on preparatory mortar. The Aerogel high-performance insulating plaster can also be used as a renovation plaster with prior sealing against moisture.

- Properties:**
- Thin insulation layers with efficient U-value
  - Capillary active and water vapour permeable - prevents mildew, fungal and algae attack
  - Can be applied by machine, therefore economic
  - Can be used as different thermal insulating variants both indoor and outdoors
  - Surface visible with no marks
  - Accurate wall reproduction possible

**Application procedure:**



Technical data	
Packaging type	
Unit per pallet	30 unit/pal.
Quantity per unit	50 l/unit
Water addition rate	approx. 12.5 l/bag
Consumption	approx. 2 kg/m <sup>2</sup> /cm
Yield	approx. 5 l/kg
Application time	approx. 30 min
Layer thickness	min. 30 - max. 150 mm
Dry density	approx. 220 kg/m <sup>3</sup>
Thermal conductivity $\lambda_{10}$ (Empa inspection report 5214-003132, 06.09.2013)	0.026 W/mK
Thermal conductivity $\lambda_D$ (Empa inspection report 5214-006016, 11.07.2014)	0.028 W/mK
Water vapour diffusion $\mu$	4 - 5

- Composition:**
- Binding agents: hydraulic lime NHL 5, calcium hydroxide, white cement
  - Aggregates: Aerogel granules, light mineral aggregate
  - Additives: water retaining agent, air-entraining agent, hydrophobic agent

**Basics:** The general rules of building construction must be observed, in addition to the current notes published by the «Swiss Association of Painters and Plasterers SMGV», the recommendations SIA 242 «Rendering and Plastering» and the information in this technical data sheet. In particular, attention is drawn to the following two Information Sheets: «Plastering, Insulating, Filling and Surfacing at High and Low Temperatures» (SAPP) and «Using Lime Plasters in the Preservation of Historical Buildings» (by the International Association for Science and Technology of Building Maintenance and the Preservation of Monuments).

**Application procedure:** Fixit 222 Aerogel should be applied to the previously prepared base surface with a machine specially equipped for use with insulating plaster. Long interruptions in the work should be avoided. If the required thickness demands an application of more than one layer, then the surface of each layer should be well roughened before it hardens.



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#### Post-application treatment:

After lime-based plasterwork is applied indoors, rooms must be adequately ventilated. Industrial dehumidifiers are not suitable for this purpose as they may cause cracking of the incompletely set insulating plaster layer. During extreme conditions such as high temperatures, or when surfaces are directly exposed to sunshine or wind, measures should be taken to protect the newly applied insulating plaster (e.g. pre-wetting the substrate, providing shade, keeping the surfaces moist, and protecting them from air currents and driving rain etc.). When Fixit 222 has hardened, but before a final rendering is used, a levelling layer and a reinforcing layer must be applied to the surface. We recommend Fixit 493 to stabilize the surface and Fixit 223 Special Base Coat & Reinforcement Mortar respectively. A coarse grid Fixit woven reinforcement grid should be embedded in the latter layer. The edges of the fabric mesh must overlap by at least 10 cm.

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#### Storage:

Store in a dry place on wooden battens. Storage life min. 12 months. Binding properties may be affected if stored for longer.

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#### Certificates:




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#### Further notes:




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#### Important note:

VOC free (see Empa Test Report 5214-006387 of 1.7.2014).  
Do not use below +5°C or above +30°C (air and substrate temperature). In order to avoid excessively rapid drying and the consequent risk of cracking due to shrinkage, the Fixit 222 layer should be kept moist for at least one week. This can be ensured by regularly wetting with a carefully applied fine water spray or by the use of wetted jute curtains hung a distance of 10 – 20 cm from the plaster surface. Fixit 222 is not suitable as substrate for laying ceramic wall tiles. Only mineral-based final renderings und paintwork may be applied to Fixit 222 and Fixit 223.

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#### General provisions:

This technical information sheet replaces all previous versions of the information sheet for this product. The details in this technical information sheet were drawn up carefully and conscientiously based on the current state of knowledge and experience and refer to the usual purpose of use. The information is provided without any warranties regarding accuracy and completeness and any and all liability is excluded. It also does not establish any contractual legal relationship with or subsidiary obligation of Fixit AG. Customers and users are personally responsible for checking that the products are suitable for the intended purpose of use. The latest versions of our technical information sheets are available on our website or can be ordered from the competent branch.