



## Fixit 222 Aerogel – Application

Application guidelines for the high-performance insulating plaster

# Application guidelines for the Fixit 222 Aerogel high-performance insulating plaster

Outside, the scaffolding must be equipped with a net/cover to protect against wind and direct sunlight. The ambient and substrate temperature must be between 5-30 °C during application and drying of the insulating plaster. If plaster profiles are used, they must be fully bonded beforehand.

The plaster base must be clean, dry and load-bearing and pre-treated with an appropriate adhesive layer. If the insulating plaster is applied to a critical substrate or if the existing base plaster cannot be completely removed, a Welnet plaster base grid should be mechanically attached.

## Testing and pre-treatment of the substrate

	<b>Fixit 211</b> Cement mortar with bonding additive	<b>Fixit 281</b> CalceClima® Pre-spraying mortar	<b>Fixit 670</b> Extended cement mortar	<b>Fixit 462</b> Renovation plaster	<b>Fixit 210</b> Hydroment dehumidifying plaster	<b>Welnet</b> Plaster base grid
Brick and quarry stone	✓	✓	✓			
Sandstone		✓				
Cement plaster Concrete	✓					✓
Timber frame-work, lime plaster and brickwork		✓				✓
Plastic plaster				✓		✓
Efflorescence					✓	✓
Exposed brick-work, soffits and vaults						✓



## Application of Fixit 222 Aerogel

The plaster is applied using a plastering machine equipped for thermal insulation plaster (lightweight plaster mixing shaft and double-layer worm conveyor). For plinth, balcony and floor connections, plinth insulation boards must first be bonded at least 10 to a maximum of 20 cm above ground level. The connections in the plinth area must be carried out in accordance with the Fixit 222 Aerogel insulating plaster detailed drawings.

When applying several layers of insulating plaster, the plaster layer must be roughened very well beforehand and the next layer of plaster applied the following day (recommendation: tear open the plaster crosswise with a Swedish saw)

In order to prevent the insulation plaster from drying too quickly and to avoid excessive shrinkage cracking, it must be kept damp for at least a week. The drying time depends on the conditions and weather conditions on site (under ideal conditions: 3 mm/day). The minimum standing time before further coating is three weeks and the plaster may only be scraped directly before further coating.



For touch-up work, add 10 % Fixit 497 plaster and mortar emulsion to the mixing water for Fixit 222. This improves adhesion to the substrate and simplifies handling. Particularly critical areas are coated directly with Fixit 497 plaster and mortar emulsion.

### Stabilising the surface

Fixit 493 Mineral Substrate Stabiliser is applied to the insulating render before further coating and after vacuuming off the dust residues to create a sufficiently firm surface on the Fixit 222 Aerogel High Performance Insulating Render. Fixit 493 Mineral Substrate Stabiliser is diluted with water in a ratio of 1:1, sprayed on wet-on-wet and then massaged in with a roller. Ideally, this work step should be carried out 24 hours before embedding the mesh.

### Fabric embedding and levelling layer

Fabric embedding is required to create a solid plaster surface. The perimeter insulation board must first be roughened at the base. The coarse-meshed reinforcing mesh is then embedded with Fixit 223 Special Embedding Mortar in a layer thickness of at least 5 mm to a maximum of 8 mm. The Fixit 223 Special Embedding Mortar is either applied with a broom finish (for mineral finishing render) or smooth (for silicate render). The drying time is ten days.

### Primer for Fixit mineral finishing plasters

- **Fixit 471** Premium plaster base
- **Fixit 475** Primer for mineral finishing plasters

### Finishing render and paint

The Aerogel insulating plaster may only be coated with mineral finishing plaster and mineral paint. Hard finishing coats such as wash or scratch plasters must not be used, as their surface tension is too high and adhesion is not guaranteed. The service life of the façade is significantly extended by applying two coats of mineral paint; the brightness reference value HBW must not be less than 20.

- **Fixit 203** Finishing plaster with hydraulic lime\*
- **Fixit 208** Base mixture for restorations\*
- **Fixit 740 Si** Silicate-silicone plaster exterior
- **Fixit 746** Silicone finishing plaster exterior
- **Fixit 763** White lime-cement abrasion\*
- **Fixit 764** Trowel throw\*
- **Fixit 777** Fine plaster extra white\*
- **Fixit 784 OF** Mineral sol-silicate paint
- **Fixit 785 evo** Biocide-free mineral paint
- **Fixit 786 Si** Silicone resin plaster roll-over paint

We refer to the general rules of building science, the applicable SMGV information sheets and the SIA Standard 242.



\*with Fixit 497 Plaster and mortar emulsion

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