

Thermoplast XR432

Advanced thermal plaster · polystyrene-free



An advanced thermal plaster for insulating buildings against heat and cold, without polystyrene. It insulates the building envelope, including thermal bridges, for interior and exterior use.

Technical data

Design thermal conductivity	0.0694 W/m·K (SII certificate 7513225679, tested to Israeli Standard 5450)
Reaction to fire	A1 / A1fl under Israeli Standard 755, identical to EN 13501-1:2018 (SII certificate 7513208185, thermal plaster model 300)
Standard Mark (thermal plaster system)	SII permits under Israeli Standard 1414, part 1 (external) and part 2 (internal thermal insulation systems)
Compressive strength, 28 days	~1.5 MPa (manufacturer data)
Colour	White
Coverage	4.3 m² per bag at 1 cm thickness (laboratory conditions)
Working time	~1 hour
Application temperature	5-35 °C
Storage	Up to 9 months from manufacture, in the original packaging, in a shaded, well-ventilated place
Packaging	12.5 kg bag (about 33 L)

* Consumption may vary with the condition of the substrate and the applicator's method.

* Thermal and energy calculations use the design value, never a measured point (instruction of SII certificate 7513225679).

Main properties and uses

- Insulation of the building envelope, including thermal bridges.
- Interior and exterior use.
- Reduces condensation inside the building.
- Breathable: allows water vapour to pass.
- Non-combustible: the thermal plaster is classified A1 for reaction to fire.

Substrate

Suitable substrates: concrete, concrete block, cellular concrete block, pumice block, silicate block. Plastering should not start until two weeks after construction work is complete. Surfaces to be plastered must be straight and suitable for the design. Remove loose layers, protrusions and foreign bodies, and cut off binding wires. Wet the wall before applying the cement spatter coat. Fill the joints between blocks with the cement spatter mix. Clean surfaces of oil, dust and salts. Where different materials meet (for example concrete and block), cover the joint with a suitable glass-fibre mesh. The base coat (cement spatter for exterior work, multi-purpose plaster for interior work) dries for at least 24 hours. Apply the thermal plaster 24 to 72 hours after the base coat is complete; if it is not applied within 24 hours, cure the base coat as its own product sheet specifies.

Mixing by hand

1. Use a container at least twice the volume of the bag.
2. Pour about 13.5 L of water into the container (per bag).
3. Add the plaster gradually while mixing with an electric mixer for about 5 minutes, until the mix is uniform and homogeneous.
4. Wait about 2 minutes and mix again for about a minute. Up to about 10% more water may be added if needed.

Mixing by machine

Plastering machine Kaleta S-5 or equivalent (rotor and stator KAS 22 L/min). Recommended water flow: 200-250 L/h.

Application

1. Make sure the cement spatter base is rough and serrated (at least 0.5 cm).
2. Apply by trowel or spray. Press the first coat firmly onto the base for maximum bond.
3. Apply up to about 3 cm in one coat.
4. Level the plaster with a dedicated straightedge.
5. Apply each further coat after the previous one has dried (at least 24 hours).
6. Cure the plaster from the day after application: one day of curing per centimetre of thickness, wetting three times a day.

General guidelines

Do not add gypsum or other products. Do not apply in extreme weather (strong wind, heat waves, rain). Working time varies with ambient conditions. A mix that has started to set must not be re-used. Follow the requirements of the relevant standards and work safely. Before starting work, contact PELES for guidance and a technical specification. The material is alkaline: protect skin and eyes, and on contact rinse with plenty of running water.

Warranty

The manufacturer's warranty is limited to the quality of the materials and does not cover the application. The applicator is responsible for checking that the product and the system suit the job and for the quality of the work. PELES may update data and recommendations without notice; the applicator is responsible for using the latest version.

Peles Building Materials Ltd. · a Frishman Group company
Kadmat Galil Industrial Park, Israel
office@pelespeles.co.il · +972 76 599 3322 ·
www.pelespeles.co.il/en/

The information in this sheet is given in good faith and may be updated without notice. Standards cited are Israeli standards unless stated otherwise. The Hebrew technical sheet is available on request.
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