

INNO-THERM FOX THERM-ALL® PLAST FT385 PLUS

Cement and Polymer Dispersion Combination, Fiber Reinforced, Elastic, Thermal Insulation Plaster

Description

FOX THERM-ALL® PLAST FT385 PLUS, is a cement based, polymer and inorganic additive, fiber reinforced, elastic, readymade thermal insulation plaster material that can be applied directly on gypsum-based boards.

It meets the requirements of **TS 13687**.

It meets the requirements of **TS EN 998-1**.

Fields of Usage

- It is used as a surface plaster on gypsum-based exterior boards and thermal insulation boards in all buildings.
- It is used for coating concrete, prefabricated reinforced concrete elements, cement-containing particle board and old plastered surfaces.

Advantages

- Provides excellent adhesion.
- Provides excellent adherence to gypsum-based exterior boards developed for exterior walls, reinforced with fibers.
- It prevents formation of superficial cracks thanks to its fiber reinforcement.
- Easily prepared and applied.
- Long working time.
- It creates a surface ready for paint or mineral plaster application.
- It is resistant to freezing - thawing cycle.

Technical Data

Structure of Material	Mineral fillers, synthetic additives and special polymers	
Density		1.80±0.05 kg/lit
Color		Grey
Compressive Strength	TS EN 1015-11	17.9 N/mm ² (CS IV)
Flexural Strength	TS EN 1015-11	4.6 N/mm ²
Adhesion Strength to Thermal Insulation Board	TS EN 13494	≥0.08 N/mm ²
Bond Strength	TS EN 1015-12	>2.2 N/mm ²
Capillary Water Absorption	TS EN 1015-18	≤0.20 kg/m ² .dk ^{0.5} (W2)
Upper Moisture Limit		11.91 μ
Thermal Conductivity	TS EN 1745	0.45 W/mk
Reaction to Fire	TS EN 13501-1	A1
Application Thickness		Min. 3mm - Max. 5mm
Application Surface Temperature		+5°C / +30°C
Full Curing Time		+20°C 28 days
Duration of Use		~90 minutes



The above values are given for +23°C and 50% relative humidity. High temperatures shorten the time, low temperatures extend the time

Application Procedure

Surface Preparation

The surface of the thermal insulation board to be applied must be dust-free and free from dirt. In addition, dowelled joint process must be mechanically completed.

Mixing

The appropriate amount of water described on the package is poured into a clean mixing bowl. While **FOX THERM-ALL® PLAST FT385 PLUS** is slowly added into the water, it is mixed with an electric mixer with 400 - 600 rpm for about 3-4 minutes until it becomes homogeneous. Care should be taken that there are no lumps in the mixture. After the material is rested for 3 minutes, it is mixed again for 1 minute and made ready for application.



Mixing ratios

Approximately 6.00 ± 0.25 lt of water should be used for 25 kg / 1 bag **FOX THERM-ALL® PLAST FT385 PLUS**.
Approximately 240 ± 10 ml of water should be used for 1 kg of **FOX THERM-ALL® PLAST FT385 PLUS**.

Application

The smoothness and soundness of the application surface is checked. It is applied together with alkali-resistant joint tape on the joints of dry wall boards. The surface can be plastered at least 1 day after the joint process is completed. The thermal insulation boards, after one layer of plaster is applied on dry wall boards, the plaster mesh is neatly embedded into this first layer of plaster. After the first layer dries, the plastering process is completed by applying the second layer of plaster. Application thickness can be 3-5 mm depending on preference. If it will remain without painting for more than 3 weeks, **FOX THERM-ALL® COATPRIM FT110** should be applied immediately on the under-paint primer. The priming process to be made will ensure that the plaster remains for a long time without cracking and a healthy under-paint preparation will be made.

Cleaning of the Tools

After the application, tools and equipment used should be cleaned with water. **FOX THERM-ALL® PLAST FT385 PLUS** can only be cleaned from the surface mechanically after it hardens.

Consumption

3.5-5.0 kg/m²

Watch Points

- In **FOX THERM-ALL® PLAST FT385 PLUS** application, if the ambient and surface temperature is below +5°C or above +30°C, suitable temperatures should be expected.
- In outdoor applications, application should be protected from sun, rain, wind and frost for the first 24 hours.
- Working and reaction times in cement based repair mortars are affected by air temperature, humidity and floor temperatures.
- High temperatures accelerate hydration and working time decreases accordingly. Low temperatures decelerate hydration and this increases working time. For the material to complete its curing, the surface temperature and ambient temperature to be applied must not fall below the minimum allowed value.

Package

25 kg polyethylene reinforced craft bag

Shelf Life

When stored properly at room temperature, away from direct sunlight, between +5°C and +30°C, shelf life is 12 months from the date of production. Opened packages should be consumed within 1 week provided that closing their lids.

Storage

Should be stored in its original package, in a cool and dry place protected from frost. In short-term storage, maximum 3 palletes should be placed on top of each other and the shipment should be made on a first-in, first-out system. In long-term storage, pallets should not be placed on top of each other.

Safety Precautions

It is dangerous to approach the storage and application areas with fire. Storage and application areas should be ventilated.

During the application, work clothes, protective gloves, goggles, masks in accordance with the occupational health and safety rules should be used. During storage and application, the material should not be contacted with the skin and eyes, if contacted, should be washed immediately with plenty of water and soap, and if swallowed, should be sought medical attention immediately. Foods and drinks should not be taken into the application areas. The material should be stored out of the reach of children.

For detailed information, please refer to the Material Safety Data Sheet.

Disclaimer

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