

INNO-THERM

FOX THERM-ALL® DUO FT388

Fiber Reinforced, Thermal Insulation Boards' Adhesive and Plaster

Description

FOX THERM-ALL® DUO FT388, is a ready-to-use, all-purpose cement-based plaster material, with polymer additive and fiber-reinforced, which is suitable for bonding thermal insulation boards (Xps, rock wool, Eps) and can also be applied directly to thermal insulation boards.

EN 998-1:2016/GP, CSIII, W_c1, A1

Fields of Application

- In direct plastering of Thermal Insulation boards
- Bonding of Thermal Insulation Boards to reinforced concrete and plastered surfaces.
- It is used for covering concrete, precasted reinforced concrete elements, cement-containing particle-boards and old plastered surfaces.

Advantages

- Provides excellent adhesion.
- Thanks to its fiber reinforcement, it prevents the formation of superficial cracks.
- Easy to prepare and provides fast application.
- Working time is long.
- Creates a ready smooth surface for finishing coats applications (paint or mineral plaster application).
- Resistance to freezing – thawing cycle effect.

Technical Data

Structure of Material		Mineral fillers, synthetic additives and specialty polymers
Color		Grey, White
Density (Bulk Dry)	EN 1015-10	1500±200 kg/m ³
Compression Strength	EN 1015-11	≥3,5 N/mm ² (CSIII)
adhesion Strength	EN 1015-12	≥0,08 N/mm ²
Water absorption	EN 1015-18	≤0,40 kg/m ² min ^{0.5} (W _c 1)
Water Vapor Permeability Coefficient	EN 1015-19	≤25 μ
Air content	EN 1015-7	%5,5
Correction time	EN 1015-9	15-20 minutes
Reaction to Fire Class	EN 13501-1	A1
Thermal Conductivity	EN 1745	≤0,45 W/mk P=%50
Application thickness		Min. 3mm - Max. 5mm
Surface Temperature		+5°C / +30°C
Ripening time		3-5 min

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

Application Procedure

Substrate Preparation

The substrate to be applied must be sound and free from all kinds of lime, mold, dust and dirt. The areas in need for repairing should be repaired with **INNO-CRETE** series repair mortars before at least 24 hours. Before plastering, the doweling process must be completed mechanically. If the air temperature is above +20°C during the application, the surface should be slightly moistened.

Mixing

The appropriate amount of water specified on the package is poured into a clean mixing bowl. While **FOX THERM-ALL® DUO FT388** is slowly added into the water, it is mixed with an electric mixer with 400-600 rpm for about 2-3 minutes until it becomes homogeneous. Care should be taken to ensure that there are no lumps in the mixture. The material is allowed to rest for 3-5 minutes during the maturation period and then mixed again for 1 minute and made ready for application.

Mixing Ratios

As an adhesive mortar;

For 25 kg /1 bag **FOX THERM-ALL® DUO FT388** about 6,00±0,25 Lt of water should be used.
For 1 kg **FOX THERM-ALL® DUO FT388** about 240±10 ml of water should be used.



As insulation plaster;

For 25 kg /1 bag **FOX THERM-ALL® DUO FT388** about 6,25±0,25 Lt of water should be used.

For 1 kg **FOX THERM-ALL® DUO FT388** about 250±10 ml of water should be used.

Application

As an Adhesive Mortar;

FOX THERM-ALL® DUO FT388 is applied to the edges of the adhesion surfaces of the heat insulation boards in a way that it will wrap around the entire perimeter, and to the middle parts of the boards, pointwise, with a mortar trowel. **FOX THERM-ALL® DUO FT388**, it should have touched minimum 40% of it. While the thermal insulation boards are being adhered, the boards are pressed into their places until the desired level and equality is achieved. Depending on the ambient temperature, when **FOX THERM-ALL® DUO FT388** is sufficiently cured, the boards are mechanically attached to the surface with suitable dowels. During the placement of the boards, the material on the surface of the boards should be prevented from drying and forming a film layer. On very smooth surfaces, **FOX THERM-ALL® DUO FT388** should be applied so that the back of the boards is completely covered with the help of a 10 mm x 10 mm notched trowel.

As an Insulation Plaster;

Heat insulation boards are mechanically anchored after **FOX THERM-ALL® DUO FT388** plaster application. After a layer of plaster is applied on the board, before the plaster dries, the plaster mesh is placed in the first layer of plaster by gently pressing it properly so that it is not completely buried. After the first layer has dried, 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 be left without painting for more than 3 weeks, **FOX THERM-ALL® COATPRIM FT110** should be applied immediately on the undercoat. The priming process will ensure that the plaster stays for a long time without cracking and a healthy underpainting preparation will be made.

Cleaning The Tools

Tools and equipment used after the application should be cleaned with water. **FOX THERM-ALL® DUO FT388** can only be mechanically cleaned from the surface after hardening.

Consumption

As an Adhesive Mortar; 6-7 kg/m²

As an Insulation Plaste; 4,5-5 kg/m²

Watch Points

- **FOX THERM-ALL® DUO FT388** should only be mixed with pure water without adding foreign matter.
- After **FOX THERM-ALL® DUO FT388** is applied to the façade, it must be fixed mechanically by selecting the appropriate dowel to the surface.
- In **FOX THERM-ALL® DUO FT388** application, if the ambient and surface temperature is below +5°C or above +30°C, the temperatures should be brought to that range before.
- In outdoor applications, it should be protected from sun, rain, wind and frost for the first 24 hours.
- The workability and reaction times in cement-based repair mortars are affected by air temperature, humidity and ground temperatures.
- High temperatures accelerate hydration and the working time is shortened accordingly. Low temperatures slow down hydration and prolong the working time. In order for the material to complete its curing, the surface temperature and ambient temperature to be applied must not fall below the minimum allowable temperature.

Package

25 kg polyethylene kraft bag

Shelf life

Shelf life is 12 months from the date of production when properly stored at room temperature, away from direct sunlight between +5°C and +30°C. Opened packages should be closed and consumed within 1 week.

Storage

It should be stored in its unopened original package, in a cool and dry environment, protected from frost. In shortterm storage, maximum 3 pallets should be placed on top of each other and the shipment should be made with 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 storage and application areas with fire. Storage and application areas should be ventilated. During the application, work clothes, protective gloves, glasses and masks in accordance with the occupational and worker health rules should be used. During storage and application, it should not be contacted with the skin and eyes, in case of contact, it should be washed with plenty of soap and water. If swallowed, a doctor should be consulted immediately. Food and beverage materials should not be brought into the application areas. It should be stored out of the reach of children.

For detailed information, the Material Technical Data Sheet should be consulted.

Disclaimers

The data contained in this technical document is based on our scientific and practical knowledge. SARTECH Yapı Malz. San. ve Tic. Ltd. Şti. is only responsible for the quality of the product. Our company cannot be held responsible for the consequences that may occur due to misuse and/or other than the written suggestions about where and how the product will be used. For detailed information, the safety data sheet and technical data sheet should be consulted or our company officials should be contacted.

