

**INNO-THERM****FOX THERM-ALL® MINPLAST FT377****Decorative Mineral Plaster****Description**

**FOX THERM-ALL® MINPLAST FT377** is a cement based, polymer reinforced, general purpose decorative mineral plaster mortar that increases mechanical strength by applying on plastered surfaces.

It meets the requirements of **EN 998-1:2016/GP, CSI, W<sub>c</sub>1, A1**.

It meets the requirements of **TS 7847/G<sub>3</sub>-E<sub>5</sub>-S<sub>3</sub>-V<sub>1</sub>-W<sub>2</sub>-A<sub>0</sub>-C<sub>0</sub>**.

**KA:** Grain textured

**MR:** Line textured

**Fields of Application**

- Indoors and outdoors,
- As a decorative coating on thermal insulation plaster on building facades,
- It is used on mineral based surfaces such as concrete and plaster.

**Advantages**

- Provides excellent adhesion.
- Can be painted in desired color.
- Easy to prepare and apply.
- Long service life.
- Allows water vapor diffusion.
- High mechanical resistance against external factors.
- Resistant against freezing - thawing cycle.

**Technical Properties**

Material Structure		Mineral fillers, synthetic additives and special polymers
Density		1.80±0.05 kg/L
Color		White
Gloss	EN ISO 2813	G <sub>3</sub>
Dry Film Thickness	EN 1062-1	E <sub>5</sub>
Grain Size	EN ISO 1524	S <sub>3</sub>
Water Vapor Transfer Rate	EN ISO 7783	V <sub>1</sub>
Water Transfer Rate	EN 1062-3	W <sub>2</sub>
Crack Bridging	EN 1062-7	A <sub>0</sub>
Carbon Dioxide Permeability	EN 1062-6	C <sub>0</sub>
Dry Bulk Density	EN 1015-10	1400±100 kg/m <sup>3</sup>
Compressive Strength	EN 1015-11	≥1 N/mm <sup>2</sup> (CSI)
Bond Strength	EN 1015-12	≥0.2 N/mm <sup>2</sup>
Capillary Water Absorption	EN 1015-18	≤0.4 kg/m <sup>2</sup> .min <sup>0.5</sup> (W <sub>c</sub> 1)
Water Vapor Permeability	EN 1015-19	≤20 μ
Thermal Conductivity	EN 1745	≤0.61 w/mk
Fire Reaction	EN 13501-1	A1
Air content	EN 1015-7	%5.5
Workable life	EN 1015-9	15-20 minutes
Floor Temperature		+5°C / +30°C
Maturation Time		3-5 min
Pot Life		~1 hour

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



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## Application Procedure

### Substrate Preparation

The application surface must be sound and free from all kinds of dust and dirt. It should also be ensured that the surface is level. Dusty, crumbling mineral-based surfaces, surfaces exposed to windy and hot weather, cement-based surfaces should be reinforced by using **FOX THERM-ALL® SUNPRIM FT310** as decorative plaster primer before application.

In order to use **FOX THERM-ALL® MINPLAST FT377** as the top coat decorative plaster of the thermal insulation system, the thermal insulation boards must be firmly adhered to the wall, mechanically fixed to the surface with suitable dowels and plastered with **FOX THERM-ALL® PLAST FT385/FOX THERM-ALL® DUO FT388**.

### Mixing

The appropriate amount of water specified on the package is poured into a clean mixing bowl. While **FOX THERM-ALL® MINPLAST FT377** 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

Approximately 5.50±0.25 liters of water should be used for 25 kg/bag **FOX THERM-ALL® MINPLAST FT377**  
Approximately 220±10 ml of water should be used for 1 kg **FOX THERM-ALL® MINPLAST FT377**

### Application

After applying a layer of plaster with **FOX THERM-ALL® FIX FT383/FOX THERM-ALL® DUO FT388** on the mechanically doweled thermal insulation boards after adhering with **FOX THERM-ALL® PLAST FT385/FOX THERM-ALL® DUO FT388** the plaster mesh is properly embedded into this 1st layer of plaster. After the 1st coat dries, the plastering process is completed by applying the 2nd coat of plaster.

\***FOX THERM-ALL® MINPLAST FT377 KA GRAIN TEXTURED 1,5 mm and 2 mm** mixture is applied to the surface with a steel trowel on the plaster that has taken its setting. The desired pattern is given with the help of a plastic trowel before the surface dries.

\***FOX THERM-ALL® MINPLAST FT377 KA GRAIN TEXTURED 3 mm** mixture is applied to the surface with a steel trowel on the plaster that has taken its setting. The product is suitable for machine (fasarit) application as well as manual application.

\***FOX THERM-ALL® MINPLAST FT377 KA GRAIN TEXTURED 4 mm** mixture is applied to the surface with a fasarite machine on the plaster that has taken its premium. The desired pattern can be given with the help of a plastic trowel before the surface dries.

\*The surface that has achieved its final set is coated with **FOX THERM-ALL® MINPLAST FT377 MR in the desired texture — 1.5 mm (FINE) or 2.0–3.0 mm (COARSE)** — using a stainless steel trowel. Before the surface dries, the desired texture (horizontal lines, vertical lines, or circular movements) is created with a plastic trowel while the material is still fresh.

### Cleaning of Tools

Tools and equipment used after application should be cleaned with water. **FOX THERM-ALL® MINPLAST FT377** can only be mechanically cleaned from the surface after hardening.

### Consumption

**FOX THERM-ALL® MINPLAST FT377 KA 1,5 mm** 1.80-2.00 kg/m<sup>2</sup>,  
**FOX THERM-ALL® MINPLAST FT377 KA 2,0 mm** 2.00-2.50 kg/m<sup>2</sup>,  
**FOX THERM-ALL® MINPLAST FT377 KA 3,0 mm** 3.00-4.00 kg/m<sup>2</sup>,  
**FOX THERM-ALL® MINPLAST FT377 KA 4,0 mm** 4.00-6.00 kg/m<sup>2</sup>,  
**FOX THERM-ALL® MINPLAST FT377 MR 1,5 mm (FINE)** 2,00-3,00 kg/m<sup>2</sup>,  
**FOX THERM-ALL® MINPLAST FT377 MR 2.0–3.0 mm (COARSE)** 3.00-4.00 kg/m<sup>2</sup>,

### Watch Points

- In **FOX THERM-ALL® MINPLAST FT377** application, if the ambient and surface temperature is below +5°C or above +30°C, suitable temperatures should be expected.
- In outdoor applications, it should be protected from sun, rain, wind and frost for the first 24 hours.
- Working and reaction times of cement based repair mortars are affected by air temperature, humidity and ground temperatures.
- High temperatures accelerate hydration and the working time shortens accordingly. Low temperatures slow down the hydration and prolong the working time. In order for the material to complete its curing, the floor temperature and ambient temperature should not fall below the minimum permissible temperature.



**Package**

25 kg polyethylene reinforced kraft bag

**Shelf Life**

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

**Storage**

It should be stored in its unopened original packaging, in a cool and dry environment, protected from frost. For short-term storage, maximum 3 pallets should be stacked on top of each other and shipment should be made on a first-in, first-out basis. For long term storage, pallets should not be stacked 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, it should not be contacted with the skin and eyes, should be washed immediately with plenty of water and soap, and if swallowed, seek medical attention immediately. Food and drink materials should not be brought to the application areas. It should be stored out of the reach of children.

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

**Disclaimer**

The data contained in this technical document is based on our scientific and practical knowledge. Fox Bau Yapı Kimyasalları A.Ş. 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.



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