Technical Data Sheet
(For Testing Purposes)

FP additives

Type: FP 300 Premix

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This document contains the technical data sheet of the FP additives™ product – FP 300. The product in its current form has been developed exclusively for internal testing purposes and is not a marketed end product. The purpose of this document is to provide comprehensive technical and processing information for the evaluation of the product.

For a practical demonstration of material application using a concrete pump, please refer to this video.

Your Sincerely,

István Flösser
Production and R&D Manager

1. Applications

- Thermal insulation of ground floor slabs (underfloor heating, between concrete and screed layers)
- Thermal insulation of intermediate floors
- Walkable thermal insulation of attic floors
- Thermal insulation of flat roofs
- Floor slab insulation (underfloor heating, between concrete and screed layers)

2. Mixing instruction

The FP 300 is delivered as a pre-mixed dry material. Only water is required for mixing.

a. 50-liter paper bag packaging

- Pour 90% of 8–9 liters of water into a 100-liter drum or compulsory mixer
- While mixing, gradually add the contents of the 50-liter bag
- Add the remaining 10% of water
- Mixing time: 8–10 minutes
- Processing temperature: between +5 °C and +35 °C
- After mixing, the material can be applied within approx. 1–1.5 hours. The material remaining in the mixer may only be used if it is remixed beforehand!

b. Large quantity (Big-Bag, truck mixer): e.g., 5 m³

- Pour 90% of 800–900 liters of water into the mixer
- Gradually add the contents of the Big-Bag while mixing
- Finally, add the remaining 10% of water
- Mixing time at high speed: 8–10 minutes
- After mixing, the material can be applied within approx. 1–1.5 hours. The material remaining in the truck mixer must be kept rotating at the lowest speed!

3. Technical data

Model	FP300 Premix
Fire Resistance	A2-s1-d0
Fraction	Max 0-4 mm
Tensile Strength	0,035 N/mm2 MSZ EN 1607:2013
Compressive Strength 10% Compression	0,205 N/mm2 MSZ EN 826:2013
Working Time	120-180 min
Impact-Sound Insulation	to 500 Hz: 14 dB
Resistance to Water Vapor Diffusion: μ	5,98
Thermal Conductivity λ	0.054 W/mK
U value 20 cm	0,270 W/m²K
U value 30 cm	0,180 W/m²K
Residual Moisture After 28 Days (thickness cm. 5)	<1% in volume
Dry weight	170 – 180 kg

4. Application methods

Small surface

On small surfaces, mixing can be done in a concrete mixer, and the prepared material can be transported with a wheelbarrow or larger containers. It can also be poured in a single step up to a thickness of 30–40 cm.

Large surface

On large surfaces, pre-mixing is carried out at a mixing plant or on site with a truck mixer, then application is performed by chute or concrete pump. It can also be poured in a single step up to a thickness of 30–40 cm.

Finishing works

- The surface must be smoothed; vibration is prohibited.
- The surface must be protected from precipitation, wind, and direct sunlight for 72 hours.

Final surface coverings

- Hard-surfaced floor tiles
- Soft-surfaced floor coverings
- Brush- or roll-applied waterproofing

5. Cleaning and storage

- Tools must be cleaned immediately with water after use.
- Hardened material can only be removed by mechanical means.
- Storage: in a dry place, protected from precipitation and moisture, on pallets.
- Shelf life: 12 months in unopened packaging.