

Technical Data Sheet (For Testing Purposes)

FP Construction®
Type: FP 150 Premix

Release date: 08.02.2026. VER: 1.1

For more information please contact us:

Fullsulate Ltd.

production@fullsulate.com

www.fpconstruction.eu

This document contains the technical data sheet of the FP Construction® product – FP 150. 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.

Your Sincerely,



István Flösser

Head of Production and R&D



1. Applications

- External and internal thermal insulation of walls (15 cm when applied manually or by machine; up to 40 cm when applied within formwork)
- Masonry structures (e.g., blocks, etc.)
- Thermal and acoustic insulation of interior partition structures
- Thermal insulation of prefabricated elements
- Internal thermal insulation of sandwich panels
- Thermal insulation of lightweight frame houses (steel, wood) within formwork
- Prevention of fire spread between adjacent buildings
- Fire- and heat-resistant coating system for protecting steel structures
- Thermal insulation of ceilings
- Thermal insulation integrated into bricks

2. Mixing instruction

The FP 150 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	FP150 Premix
Fire Resistance	A2-s1-d0
Fraction	Max 0-4 mm
Compressive Strength	0.16 N/mm ² (MSZ EN 1015-11:2020)
Compressive Strength 10% Compression	0,104 N/mm ² (MSZ EN 826:2013)
Tensile Strength	0,15 N/mm ² (MSZ EN 1015-11:2020)
Adhesive Strength	0,06 N/mm ² (MSZ EN 1015-12:2016)
Working Time	120-180 min
Impact-Sound Insulation	to 500 Hz: 14 dB
Resistance to Water Vapor Diffusion: μ	5,98 (MSZ EN 1015-19)
Thermal Conductivity λ	0.048 W/mK (MSZ EN 12667-2001)
U value 10 cm	0,46 W/m ² K
U value 15 cm	0,31 W/m ² K
Residual Moisture After 28 Days (thickness cm. 5)	<1% in volume
Dry weight	150 – 160 kg

4. Application methods

Surface preparation prior to application

Before application, ensure that the surface is sufficiently strong to support the weight of FP 150. This is particularly important in renovation works, as old plasters may detach from the wall or ceiling surface, which may also cause detachment of FP 150. Depending on the type of surface, the use of a bonding bridge (primer) is recommended. The surface must be free of dust and contaminants. Materials that impair adhesion (e.g., wax, oil, tar, lime, etc.) must be removed from the substrate before application. It is essential to thoroughly remove weakly adhering cement layers and other defective substrates if old plaster or other weak surfaces are present on the building's wall.

Manual application

The pre-mixed material shall be applied directly onto the wall surface using a hand plastering tool, taken from buckets or a wheelbarrow. The first layer shall be thrown onto the wall with a thickness of 10–20 mm. The applied material must then be leveled with a long aluminum straightedge. Subsequent layers may be applied after drying (typically the next day, or after 6–12 hours depending on weather conditions), with a maximum thickness of 4–5 cm per layer. For vertical application, a maximum of 15 cm is permitted!

The finished surface must be allowed to dry.

The final layer shall be finished with a sponge float using circular motions. The finished surface must be allowed to dry.

Machine application

The pre-mixed material shall be poured into the hopper of a screw-type plastering machine (e.g., Putzmeister PFT ZP). As a first step, a thin contact layer of approx. 10–20 mm shall be applied. Subsequent layers may be applied after drying (typically the next day, or after 6–12 hours depending on weather conditions), with a maximum thickness of 4–5 cm per layer. Maximum thickness is 15 cm; if a greater thickness is required, formwork must be used, into which the fully mixed material can be poured in a single step!

The finished surface must be allowed to dry.

Finishing works

Whether applied manually or by machine, after drying under the appropriate weather conditions, the surface must be inspected. If irregularities are observed, they must be corrected with sandpaper in order to achieve a homogeneous and even surface.

Subsequently, a protective coating may be applied, which must be breathable.

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.