

FP FLOOR

PUMPABLE MINERAL INSULATION AND LEVELLING FOR FLOORS AND SLABS

What is FP Floor?

FP Floor is FullSulate's **configurable mineral insulation and levelling system** for floors, substrates and slabs. Pumpable or castable, it forms a continuous thermal-insulating layer built on **FP additives®** technology, adaptable to the required load class, thickness and moisture conditions of the project.

Application areas



Ground-supported and basement floor slabs
(Standard profile)



Higher-load floor structures
(Load profile)



Raft foundations and industrial floor slabs
(Load+ profile)



Levelling / floating layer of intermediate floor slabs, incl. underfloor heating (Comfort profile)



Large industrial and institutional floor surfaces



Lightweight infill for prefabricated or cast structures

CORE ADVANTAGES

- Single **pumped or cast layer** – no board joints, no cutting losses.
- Adapts to **pipework, ducting and mechanical penetrations** without complex detailing.
- Efficient on **large surfaces**, reducing the need for labour-intensive installation.
- Levels **uneven or irregular substrates** in the same working step.
- **100% mineral-based**, vapour-permeable, non-toxic and water-repellent.
- Available as **premix for pilots** or as **FP additives® + local raw materials** for licensed, localized production at scale.



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REFERENCE PROFILES*

Profile	Typical application	λ	Bulk density	Thickness range
FP Floor Standard	Ground-supported floor slab, basement floor slab	0.048 W/mK	145 kg/m ³	5-15 cm
FP Floor Load	Insulation layer of higher-load floor structures	0.054 W/mK	160 kg/m ³	5-17 cm
FP Floor Load+	Insulation beneath raft foundations / industrial floor slabs	0.069 W/mK	271 kg/m ³	5-21 cm
FP Floor Comfort	Levelling layer of intermediate floor slabs, floating floor layer	0.048 W/mK	145 kg/m ³	5-10 cm

* Upper values reflect the layer thickness required to meet Hungarian U-value regulation (9/2023 ÉKM decree) for each profile; the system itself can be cast from approx. 2-40 cm upward. Actual thickness is project- and market-specific, set by the target U-value and local building regulations – requirements outside Hungary, e.g. in GCC markets, may differ. All profiles share fire classification A2-s1,d0. FP Floor Standard and Comfort additionally reach $\mu \approx 5.98$ and compressive strength $\sigma \approx 104.7$ kPa. FP Floor Load+ is further characterised by $\mu \approx 7.48$ and defined short-/long-term water absorption, reflecting its higher-load, below-grade use. Parameters not shown here are available per profile on request.

System boundary

FP Floor is fundamentally a thermal-insulating, levelling layer, configurable into four reference profiles for different load and application classes. The final wearing surface or load-distributing layer is a separate system component, defined according to the specific structural application.

FullSulate provides **proprietary FP additives® technology, application-specific formulations, existing technical documentation and application support**. Approved configurations can be produced locally under a controlled licensing and quality-assurance model; the partner completes assembly-specific validation, certification and market localisation.

How does integration start?

1. Map the existing floor build-up and target performance.
2. Select the highest-value first application.
3. Configure and prototype the FP Floor formulation.
4. Define assembly-specific validation and certification requirements.
5. Compare the prototype with the current build-up and agree a pilot programme.

Important technical note

Final thicknesses, build-ups, performance values and fire classification are determined and validated for the partner's structure, production method & target market. Values above are indicative design references, not declared performance values for every formulation.

LET'S IDENTIFY THE STRONGEST FIRST APPLICATION.

Share your current floor build-up and target market; together we can define a comparative prototype or pilot programme.