

Note on English translation / Hinweise zur englischen Fassung

This is a translation of the product data sheet valid in Germany.

All stated details and properties are in compliance with the regulations of the German standards and building regulations. They are only applicable for the specified products, system components, application rules, and construction details in connection with the specifications of the respective certificates and approvals.

Knauf Gips KG denies any liability for applications outside of Germany as this requires changes acc. to the respective national standards and building regulations.



Floor Systems

F327.de

Product Data Sheet

2022-05



FE Sprint

Early coverage ready calcium sulphate floor screed CAF-C30-F5

Product description

Knauf Fließestrich FE Sprint floor screed is a factory-mixed dry mortar on a calcium sulphate basis with special cement, intended for mixing with water. It consists of special gypsum, special cements, flow agents and aggregates (0 to 4 mm).

Quality classification acc. to EN 13813

CA-C30-F5

Storage

Dry mortar up to 3 months

Quality

In compliance with EN 13813, the product is subject to initial type testing and continuous factory production control and bears the CE marking.

Properties and added value

- Short drying time
- Very low emission, EMICODE EC 1^{PLUS}
See www.emicode.com/en
- High application performance
- Self-levelling
- Quickly load capable
- No sinter layer
- Even surfaces with minimum joint requirement
- Controlled, constant quality



Field of application

FE Sprint features early readiness for floor covering and is thus the ideal screed for construction sites with tight deadlines. FE Sprint is not used as a heated screed. FE 25 A tempo floor screed is recommended as a quick drying heated screed

It is used in interiors, for wooden floorboard, in single-family dwellings, terraced houses, multi-storey residential and office buildings as:

- Floating screed, nominal thickness ≥ 35 mm
- Screed on a separating layer, nominal thickness ≥ 30 mm,
- Bonded screed, nominal thickness ≥ 25 mm
- Screed as hollow floor, nominal thickness ≥ 30 mm.

Application

Mixing

Mixing by machine

FE Sprint floor screed is mixed with clean water using mixing pumps (e.g. PFT FERRO 100) and pumped onto the prepared surface.

Application

Recommended spread \varnothing 39 to 42 cm, determined using a consistence checking tin 1.3 l on an even, non-absorbent surface.

No water should separate from the screed while spreading!

FE Sprint levels to a horizontal flat surface when pitched with a screed brush or a dappling bar.

Application time

The application time at 20 °C is approx. 30 minutes. At higher temperatures the application time is reduced and at low temperatures it is extended.

Application temperature/climate

Required mortar temperature between +10 °C and +25 °C.

Air temperature in the construction works +10 °C to +30 °C and substrate temperature of at least +10 °C.

The temperatures must be retained until readiness for coverage is achieved.

Cleaning

In case of machine application, the machine and hoses must be cleaned within 30 minutes at the latest after machine standstill.

Movement joints

Separate all adjacent vertical components from the screed using at least 8 mm thick edge insulation strips. Apply movement joints in doorways, exceeding 100 m² screed surface or 10 m edge length.

Structural joints must be implemented at the same position across the full width in the screed.

Press joints (construction joints) are permitted depending on the work progress, machine performance and building size.

Drying – Application of covering

FE Sprint is ready for floor covering when the following residual moisture content (CM measurement) is reached:

- ≤ 1.5 CM % for parquet
- ≤ 1.8 CM % with other floor coverings

The drying time for screed thickness of 35 mm is approx. 7 days depending on the drying conditions (20 °C / 65 % relative humidity).

Start ventilation after 1 day. Do not undertake forced drying.

Once the screed surface is ready to cover, apply system-dependent primer for floor covering (e.g. Knauf Estrichgrund 1:1), to avoid drying out.

Note

The drying time is, in addition to the screed thickness, mainly dependent on: Temperature, air humidity and air speed.

Permanent ventilation is necessary for rapid drying (tilted windows). However, draughts directly on the screed surface should be avoided (do not keep the windows and doors permanently fully open). Also avoid direct sunshine from large window areas.

Note

For further information on planning and design of Knauf floor systems with Knauf flowing screed, see technical brochure [Knauf Floor Systems F20.de](https://www.knauf-floor.de).

Technical data

Designation	Standards	Unit	FE Sprint
Compressive strength (dry)	EN 13813	N/mm ²	> 30
Flexural strength dry	EN 13813	N/mm ²	> 5
Modulus of elasticity	–	N/mm ²	approx. 17000
Building material class	EN 13813	–	A1fl - non-combustible
Density, drying	–	kg/l	approx. 2.0
Density, wet	–	kg/l	approx. 2.2
Bulk density of dry material, bulk	–	kg/l	1.6
Application time	–	min	approx. 30
Walkable	–	h	after approx. 24
Can be loaded	–	d	after approx. 3
Free expansion when setting	–	mm/m	approx. 0.3
Thermal expansion coefficient	–	mm/(m·K)	approx. 0.014
Thermal conductivity λ_z	–	W/(m·K)	approx. 1.4
Yield from 100 kg dry mortar	–	l	approx. 54
Reaction of mortar	EN 13454	–	alkaline

The stated technical data were evaluated acc. to the respective test standards. Deviations under site conditions are possible.

Material requirement and efficiency

Material requirement	Consumption approx.
Per 1 cm screed thickness	19 kg/m ²

Product range

Designation	Application	Material number	EAN
FE Sprint	Bulk	00195235	4003982215567

Sustainability and environment

Short description	Unit	Value
Requirements of the German AgBB-scheme	–	fulfilled
Complies with the requirements of the French emission class	–	A+
Certificates	–	Emicode EC 1 ^{PLUS}

**Observe safety data sheet!**

For safety data sheets and CE marking see
pd.knauf.de



Videos for Knauf systems and products can be found under the
 following link:
www.youtube.com/knauf



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