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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.

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# KNAUF



Floor Systems

## F413.de

Product Data Sheet

2021-11



# N 340

Cementitious floor equalization compound from 5 to 40 mm

### Product description

N 340 is a factory-mixed dry mortar made of special cements, selected aggregates and additives to improve the application properties, ready to be mixed with water.

Cementitious mortar type CT-C25-F7 acc. to EN 13813.

### Storage

Store the bags on wooden pallets in a cool and dry environment. Seal damaged and open bags airtight and use first. Can be stored for up to 18 months in the original unopened packaging. The shelf life of bulk material is 6 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

- Ideal for exterior and wet areas
- Suitable for thin layer underfloor heating
- Can be applied in a single work step for a layer thickness of 5 to 40 mm
- Very low emission, EMICODE EC 1<sup>PLUS</sup>  
For details see [www.emicode.com/en](http://www.emicode.com/en)
- Very good flow characteristics
- Hydraulic setting
- Low stress
- For energy-related modernisation
- Suitable for use on heating screed
- Can be machine applied and pumped



## Field of application

As a composite leveller on bare concrete slabs, concrete bases and stable cementitious screed for indoor and outdoor applications.

For manufacturing smooth, offset-free floor surfaces, equalization of unevenness in the floor and divergences in dimension tolerance acc. to DIN 18202 before laying of ceramic tiles and floor slabs, marble and natural stone coverings, elastic floor coverings, carpets as well as parquet and laminate flooring. With full surface filler application under parquet, the layer thickness must be at least 5 mm.

In areas subject to moisture (max. water action class W2-I) apply suitable composite sealing in acc. with DIN 18534-1.

The requirements of the DIN 18365 apply for floor covering work.

It can also be applied in connection with a thin layer underfloor heating as bonded screed, see system data sheet [Knauf thin layer heating screed systems – heated and unheated FE22.de](#).

## Application

### Substrate and pretreatment

The maximum permissible moisture content of the substrate may not be exceeded.

Substrate	Maximum moisture content
Cementitious unheated	2.0 CM %
Cementitious heated	1.8 CM %
Calcium sulphate screed unheated	0.5 CM %
Calcium sulphate screed heated	0.5 CM %

The substrate must be firm, stable and free of cracks. Remove and roughen the surface of poorly consolidated and non-stable surface layers, extremely dense and smooth substrates and cement slurries.

Separating layers, e.g. dirt, dust, grease, oil, paint remnants etc. must be removed beforehand.

Attach perimeter isolating strips to connections to walls, columns, etc. A primer coat is recommended.

### Suitable primers

Cementitious substrates:

- Estrichgrund screed primer
- Schnellgrund
- Spezialhaftgrund
- FE-Imprägnierung

Dense substrates (e.g. tiles)

- FE-Imprägnierung impregnation agent

Trial surfaces should be created in case of doubt or seek expert advice.

### Mixing

Mix thoroughly to a lump-free and application-ready consistence in a clean bucket with clean and cold water (4.75 l for 5 to 20 mm or 4.50 l for 20 to 40 mm layer thickness). A mixer with a speed of 600 RPM with a corkscrew, double-disk agitator or agitating basket is recommended.

### Consistence for machine application

Set a suitable consistence using the flow test in dependence on the layer thickness:

- Max. Ø 57 cm for 5 to 20 mm layer thickness
- Max. Ø 55 cm for 20 to 40 mm layer thickness

(determined with a 1.3 l test can, on an even, non-absorbent surface, e.g. foil, after 2 minutes flowing time).

Optimum extraction of trapped air and levelling of the material is achieved by working the surface with a spiked roller and/or dappling bar or screed broom. Observe the slurry spread rate when applying using a mixing pump.

### Application

Pour the fresh mortar onto the prepared substrate and distribute using a finishing trowel or dappling bar to the required layer thickness. For the application on large areas, N 340 can be continuously mixed and pumped with the PFT mixing feed pump G 4 with downstream PFT ROTOMIX D pump or mixing feed pump FERRO 50. Observe the machine manufacturer's specifications. Material that has already started to harden should not be mixed with additional water or stirred again.

Bulk material is applied with the Knauf complete logistics system.

Observe the technical description for the application of cementitious floor levelling compounds (TKB Technical Briefing Note 9 - Technical Specification and Installation of Floor Levelling Compounds).

### Cleaning

Clean containers, tools, etc. with clean water immediately after use. In the hardened state, only mechanical cleaning is possible. With machine application, the machine and hoses must be cleaned within 30 minutes at the latest after machine standstill. If used, unscrew the PFT static agitator to clean it.

### Application time

The mixed floor equalization compound must be applied within approx. 30 minutes and must be levelled within approx. 20 minutes.

### Application temperature / climate

Do not apply at room, mortar or substrate temperatures below 10 °C and exceeding 30 °C. The best temperature range for application is between 15 °C and 25 °C. High temperatures speed up the hardening time while low temperatures slow down the hardening process (take temperature of the mixing water into account as well).

### Notes

Cementitious layers tend to form cracks on soft or residual sticky substrates. Old adhesive remnants, soft or residual tacky layers must therefore be removed from old substrates before priming and filling. The compound layers should not be left exposed for extended periods as it will promote crack formation and early laying of the covering or block (FE-Imprägnierung impregnation agent) is advisable.

The setting product should be protected against direct sunlight, draughts, frost, driving rain and temperatures that are too high (> 30 °C) and too low (< 10 °C).

**Technical data**

Designation	Standard	Unit	N 340
Reaction to fire	EN 13501-1	Class	A1 - non-combustible
Layer thickness	–	mm	5 – 40
Hard enough for foot traffic after	–	h	approx. 3
Ready to cover at residual moisture (check with CCM tester)	–		
■ For vapour-tight coverings		CM-%	≤ 2.5
■ For vapour permeable coverings/tiles		CM-%	≤ 3.0
Ready for floor covering with (20 °C, 65 % relative humidity)	–		
■ Tiles			
▪ Up to 20 mm layer thickness		days	approx. 3
▪ Up to 40 mm layer thickness		days	approx. 10
■ Vapour-tight coverings			
▪ Up to 20 mm layer thickness		days	approx. 6
▪ Up to 40 mm layer thickness		days	approx. 16
Strengths after 28 days	–		
■ Compressive strength		N/mm <sup>2</sup>	> 25
■ Flexural strength		N/mm <sup>2</sup>	> 7
Chair roll resistance from thickness	–	mm	5
Density	–		
■ Mortar (wet)		kg/l	approx. 2.0
■ Mortar (dry)		kg/l	approx. 1.8
Water quantity with agitator application (25 kg bag)	–		
▪ 5 – 20 mm screed thickness		l	approx. 4.75
▪ 20 – 40 mm screed thickness		l	approx. 4.50
Machine application flow test 1.3 l PFT Test Can	–		
▪ 5 – 20 mm screed thickness		cm	≤ 57
▪ 20 – 40 mm screed thickness		cm	≤ 55
Application time	–		
■ Pot life		min	approx. 30
■ Work life on the surface		min	approx. 20

The technical data refers to 20 °C and 50 % relative air humidity. Low temperatures delay setting, higher temperatures speed it up.

**Material requirement and efficiency**

Layer thickness	Consumption approx. in kg/m <sup>2</sup>
Per mm	1.6

All specifications are approximate values and can deviate depending on the substrate. The exact consumption can only be determined on the individual object.

**Product range**

Designation	Application	Packaging unit	Material number	EAN
N 340	25 kg	42 bags / pallet	00532466	4003982380425
	Bulk	Silo	00532470	4003982380449

**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 EC1

**Observe safety data sheet!**

For safety data sheets and CE marking see  
[pd.knauf.de](http://pd.knauf.de)



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▶ [knauf-direkt@knauf.com](mailto:knauf-direkt@knauf.com)

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**Knauf Gips KG** Am Bahnhof 7, 97346 Iphofen, Germany

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