

Note on English translation / Hinweise zur englischen Fassung

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

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Floor Systems

F412b.de

Product Data Sheet

2016-11



N 330 Premium

Quick drying, cementitious floor equalization compound from 0 to 30 mm

Product description

N 330 Premium 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-C35-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.

Quality

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

Properties and added value

- Easy to sand premium equalization compound
- Suitable for use on mixed substrates and heated screeds
- Can be applied in a single work step for a layer thickness of 0 to 10 mm

- Can be applied in a single work step for a layer thickness of 10 mm to 30 mm when silica sand is added
- Very low emission, EMICODE EC 1^{PLUS}
For details see www.emicode.com/en
- Very good flow characteristics
- Very quick hydraulic setting
- Low stress
- Can be machine applied and pumped
- For interior applications

Field of application

As a composite leveller on bare concrete slabs and concrete bases and stable calcium sulphate and cementitious screeds.

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



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laminated flooring. With full surface filler application under parquet, the layer thickness must be at least 3 mm.

As a leveller on professionally sanded mastic asphalt screed surfaces of hardness classes IC10 and IC15 up to 5 mm layer thickness.

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

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 % by weight
Cementitious heated	1.8 CM % by weight
Calcium sulphate screed unheated	0.5 CM % by weight
Calcium sulphate screed heated	0.5 CM % by weight

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.

Mixed substrates with synthetic adhesives (e.g. carpet adhesive) should be sanded down (small partial, firmly bonded areas are permissible), subsequently apply one coat of undiluted Knauf Schnellgrund primer. Attach perimeter isolating strips to connections to walls, columns, etc. A primer coat is recommended.

Suitable primers

Cementitious and calcium sulphate based substrates:

- Estrichgrund screed primer
- Schnellgrund primer
- Spezialhaftgrund bonding primer
- FE-Imprägnierung impregnation agent

Dense substrates (e.g. tiles)

- Spezialhaftgrund bonding primer
- FE-Imprägnierung impregnation agent

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

Mixing

Mix to a lump-free and application-ready consistence in a clean bucket with clean and cold water (6 l per 25 kg bag). A mixer with a speed of 600 RPM with a corkscrew, double-disk agitator or agitating basket is recommended. If N 330 Premium is set for larger layer thicknesses by the addition of silica sand, the quantity of added water should not be increased.

Consistence for machine application

Note	Machine application only possible when no additional silica sand is added.
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Adjust a suitable consistence using the flow test: max. flow diameter 66 cm Ø (determined with a 1.3 l checking tin, on an even, non-absorbent surface, e.g. foil, after 2 minutes flowing time). With larger layer thicknesses the slump-flow or the water quantity should be reduced if permitted by the levelling characteristics. During application, the material is self-levelling so that when the consistence of the floor equalization compound is set to flow, subsequent finishing or grinding of the surface is unnecessary. Optimum extraction of trapped air and levelling of the material is achieved by working the surface with a spiked roller.

Observe the slurry spread rate when applied using a mixing pump. In areas subject to moisture (max. water action class W2-I) apply suitable composite sealing in acc with DIN 18534-1.

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, mix and pump Knauf N 330 Premium continuously with PFT mixing pump G 4 with attached PFT ROTOMIX Disc or PFT agitator. Observe the machine manufacturer's specifications. Material that has already started to harden should not be mixed with additional water or stirred again.

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 10 minutes at the latest after machine standstill. If used, unscrew the PFT static agitator to clean it.

Working time

The mixed floor equalization compound must be applied within approx. 20 minutes and must be levelled within approx. 10 minutes.

Application temperature/climate

Do not apply at room 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).

Note

Cementitious layers tend to form cracks on soft or residual sticky substrates. The compound layers should not be left exposed for extended periods as it will promote crack formation.

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

Description	Unit	Value	Standard
Reaction to fire	Category	A1 - non-combustible	EN 13501-1
Layer thickness			–
■ Without silica sand	mm	0 – 10	
■ With 30 % fire-dried silica sand added 0.7 – 1.2	mm	10 – 30	
Hard enough for foot traffic after	h	1.5 – 2	–
Ready to cover at residual moisture (check with CM tester)			–
■ For vapour-tight coverings	% by weight	≤ 2.5	
■ For vapour permeable coverings/tiles	% by weight	≤ 3.0	
Ready for floor covering at (20 °C, 65 % relative humidity)			–
■ Tiles	h	2	
■ Textile floor coverings	h	3 – 4	
■ PVC / linoleum	h	12	
■ Rubber / parquet	h	24	
Strengths after 28 days			–
■ Compressive strength	N/mm ²	> 35	
■ Bending tensile strength	N/mm ²	> 7	
Chair roll resistance from layer thickness	mm	2	–
Density			–
■ Mortar (wet)	kg/l	2.0	
■ Mortar (dry)	kg/l	1.8	
Water quantity with agitator mixing (25 kg bag)	l	6.0	–
Machine application flow test 1.3 l PFT Test Can	cm	≤ 66	–
Working time			–
■ Pot life	min	20	
■ Work life on the surface	min	10	

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 ²
mm	1.5

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

Description	Application	Packaging unit	Material number	EAN
N 330 Premium	25 kg	42 bags / pallet	00532478	4003982380470



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