

Knauf N410

Data Sheet



Knauf N410 is a gypsum-based floor filling compound, made of calcium sulphate, selected aggregates and additives. Ready to be mixed with water.

Knauf Application

A composite leveller suitable for direct application over bare concrete slabs, stable calcium sulphate and cementitious screeds and dry-screed floor panel. Knauf N410 is ideal for creating a smooth surface before laying ceramic tiles, floor slabs, marble and natural stone, elastic floor coverings, carpets, parquet and laminate flooring.

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

Physical Characteristics

Bag Size	Material No	Pallet Details	
Kg		Bags	Tonnes (Approx.)
25	532476	42	1.05

Estimating Guide: 15.6m² per 25kg bag at 1mm thickness. All specifications are approximate values and can deviate depending on the substrate.

The exact consumption can only be determined on the individual object

Storage and Handling

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.

Compliance

Calcium sulphate based mortar type CA-C25-F7 acc. to EN 13813

Performance Data

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

Technical Data

Reaction to fire

EN 13501-1, Class A2 - non-combustible

Layer thickness

Up to 10mm

Hard enough for foot traffic after
2h

Ready to cover at residual moisture (check with CM tester)

- For vapour-tight coverings ≤ 0.5 % by weight

- For vapour permeable coverings/tiles ≤ 1.0 % by weight

Ready for floor covering at (20 °C, 65 % relative humidity)

- Tiles

Up to 2mm layer thickness 1d

Up to 10mm layer thickness 5d

- Vapour-tight coverings

Up to 2mm layer thickness 2d

Up to 10mm layer thickness 8d

Strengths after 28 days

- Compressive strength > 25 N/mm²

- Bending tensile strength > 7 N/mm²

Chair roll resistance from layer thickness
2mm

Density

- Mortar (wet) 1.9 kg/l

- Mortar (dry) 1.7 kg/l

Water quantity with agitator application (25 kg bag)
6.0 l

Machine application flow test with 1.3 l PFT Test Can
≤ 67 cm

Working time

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

Product Features

- Ideal on pre-fab floor screed, e.g. Knauf Brio and Knauf GIFA
- Easy to grind
- Can be applied in a single work step for a layer thickness of up to 10mm
- Very low emission, EMICODE EC 1PLUS R
For details see www.emicode.com
- Very good flow characteristics
- Very low stress
- Suitable for use on heated screed
- Can be machine applied and pumped
- For interior applications

Application/Installation

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 unheated	0.5 CM % by weight
Calcium sulphate 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. Attach perimeter isolating strips to connections to walls, columns, etc. Prime surface with Knauf Schnellgrund prior to application.

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

Mixing

Mix to a lump-free consistency in a clean bucket with in a clean bucket with clean and cold water (approx. guide 6L per 25kg bag). A mixer with a speed of 600 RPM with a corkscrew, double-disk agitator or agitating basket is recommended.

Consistence for machine application

Adjust to a suitable consistenc using the flow test: max. flow diameter 67cm 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 thickness's 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 filler 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 applying using a mixing pump. In areas subject to moisture apply suitable composite sealing. Do not use in wet rooms.

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 N410 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.

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 20 minutes at the latest after machine standstill.

Working time

Knauf N410 must be applied within approx. 30 minutes of mixing and must be levelled within approx. 20 minutes.

Application temperature/climate

Do not apply at room or substrate temperatures below 5°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: Old adhesive remnants, soft or residual tacky layers must therefore be removed from old substrates before priming and filling.
The setting product should be protected against direct sunlight, draughts, frost, driving rain and temperatures that are too high (>30 °C) and too low (< 5 °C).

Related Products

Knauf N410 should be used in conjunction with the following products:

Knauf Schnellgrund
Material no: 448267



Health & Safety

Refer to the product MSDS and also the Knauf Guidance for Safe Material Management document:

MSDS:

www.knauf.co.uk/product-data-sheets

Safe Material Management:

www.knauf.co.uk/literature

Sustainability Credentials:

Please view Product Sustainability Credentials Sheet:
www.knauf.co.uk/product-data-sheets

Website

www.knauf.co.uk

Customer Service

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