

Nivello 140

Self-levelling anhydrite screed for floors.

Technical data sheet 11/2025

Material

Nivello 140 is a self-levelling calcium sulphate (anhydrite) floor screed..

Composition

Special calcium sulphate formulation with selected aggregates and thickeners, with workability-improving additives.

Complies with: LVS EN 13813

Group: CA-C25-F7

Storage

6 months. Store in a dry, cool place on wooden pallets, in unopened original packaging. Reseal opened bags so they are airtight and use them first.

Quality assurance

In accordance with the requirements of LVS EN 13813, a product type test has been carried out, and continuous control of the manufacturing process is ensured. The product is CE-marked.

Features and benefits

- Layer thickness 1–40 mm
- Self-levelling, easy to pour
- Does not mirror substrate unevenness
- Does not shrink or create internal stresses
- Suitable for underfloor heating
- Smooth surface
- Does not crack
- Proven, consistent quality
- For manual and mechanical application
- For interior use



Application

Nivello 140 is intended for both residential projects and large-scale construction. It is suitable for levelling all common building substrates (as a self-levelling top layer) on:

- cement floors/screeds,
- poured/flowing screeds,
- underfloor-heated floors,
- bare concrete floors,
- stone floor coverings,
- forming a protective layer on dry screed systems.

As a substrate, Nivello 140 is suitable for floor coverings such as parquet, laminate, linoleum, PVC floor coverings, carpet, ceramic tiles, and natural stone.

Installation

Substrate

The substrate must be dry, load-bearing, rigid, crack-free, not frozen, and clean—free of dust, wax, oil, paint, solvents, or any other residues that impair adhesion.

When levelling substrates where capillary moisture may be present, a waterproofing layer must be installed between the substrate and the Nivello 140 layer, e.g., Knauf Flex-Dicht. Before pouring the levelling layer on underfloor-heated floors, the heating must be switched off.

Priming

Substrate	Knauf Haftemulsion	Knauf Estrichgrund	Knauf Spezialhaftgrund
Absorbent	Dilute 1:3 with water	Dilute 1:1 with water	Dilute 1:2 with water
Highly absorbent	Twice: first – dilute 1:5, second – 1:3 with water	Twice: first – dilute 1:2, second – 1:1 with water	Dilute 1:4 with water
Non-absorbent	Dilute 1:3 with water	Dilute 1:1 with water	Undiluted

Before applying Nivello 140, the primer must be completely dry..

Mixing

Pour 25 kg of Nivello 140 into 7–8 litres of clean, cold water. Mix with a low-speed mixer, introducing as little air as possible. The mix must be lump-free with a uniform, flowing consistency (perform a flow test).

Flow test

Use a 1.3 L PFT measuring vessel. Carry out the test on a smooth, non-absorbent surface (plastic sheet). Take the measurement after 2 minutes of flow time.

Application

At connections to walls and columns, apply an edge isolation strip. For smaller batches mixed with a mixer, pour evenly from the container. For mechanical application, discharge the mortar evenly via hose until the required level is reached. Improve the surface and achieve perfect levelling by slowly rolling with a spiked roller; for thicker layers, use a dapple bar and broom. Use only clean tools and containers.

Machines/equipment

Knauf PFT G4 mixing pump with equipment configured for the required layer thickness. Adjust the consistency by regulating the water quantity (verified by the flow test).

Movement joints

For thicker layers from 15 mm upwards, carry building joints through. Form day/work joints according to work sections, machine capacity, and project size.

Working time

Approximately 30 minutes, depending on weather conditions.

Temperature/climate

Air and substrate temperatures during application and curing must be between +5 °C and +30 °C. Protect from direct sunlight and strong draughts; do not directly heat the surface.

Drying

1 mm layer ~ 24 h. Drying time depends on layer thickness, substrate absorbency, air temperature, and room humidity.

Surface preparation for finishing

The final covering may be applied when the residual moisture (determined by the CM method) is:
 < 1% for vapour-permeable coverings
 < 0.5% for vapour-impermeable coverings and parquet

Cleaning

Clean tools immediately after use with water.

NB!

Provide good ventilation for 2 days after installation. Do not add any other materials to Knauf Nivello 140, as they can significantly alter the product's properties.

Other instructions

If the material gets into the eyes, rinse with plenty of water and seek medical attention. Keep out of reach of children.

This technical data sheet defines the scope of use and recommended working practices; it cannot replace the skills of the applicator.

In addition to these recommendations, work must be carried out in accordance with applicable building regulations and site requirements.

The manufacturer guarantees the product's quality but has no control over the method and conditions of its use.

In case of doubt, a trial application should be performed.

This technical data sheet supersedes all previous editions.

Occupational safety and waste collection

Waste identification code: 17 09 04 (see the Safety Data Sheet, SDS).

Technical data

Designation	Unit	Value/Size
Group	in accordance with i LVS EN 13813	CA-C25-F7
Layer thickness	mm	1 - 40
Grain size	mm	≤ 1,2
Working consistency / flow test with 1.3 L measuring vessel	cm	maks. 66
Yield (powder/mix)	pulveris/maisījums	100 kg = approx. 55 L of mix
Bulk density	kg/m ³	1350
Density after drying	kg/m ³	1800
Walkable after	h	~ 24
Fully loadable after	days	~ 3
Compressive strength	N/mm ²	≥ 25
Flexural strength	N/mm ²	≥ 7
Reaction to fire class	in accordance with EN 13501-1	A1
Application temperature	°C	+5 to +30

Technical data apply at +20 °C and 50% relative humidity. The stated working times vary with temperature: higher temperatures accelerate, lower temperatures slow down.

Consumption

Layer thickness (mm)	Consumption (kg/m ²)
10	~ 18

The exact consumption can only be determined on site by carrying out trial applications. All figures are approximate and may vary depending on the substrate.

Delivery

Title	Packaging	Art. Nr.	EAN code
Nivello 140	25 kg maiss	00882660	4750614008102

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Manufacturer: SIA Knauf