

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.

KNAUF



Floor Systems

F473b.de

Product Data Sheet

2020-12



Staubex® plus

High load capable bonded bulk leveller

Product description

Staubex® plus is a high load capable bonded bulk leveller made of perlite expanded volcanic rock for application under wet and mastic asphalt screeds. The Staubex® plus bonds to a stable and load bearing equalization layer thanks to the partial bitumen encasement layer. Staubex® plus is an application-friendly and very light dry bulk leveller.

Storage

Store dry on pallets. It can be stored indefinitely.

Quality

In compliance with ETA-17/0500, the product is subject to initial type testing and continuous factory production control and bears the CE marking.

Properties and added value

- Easy height equalization, no limitation on the application thickness (in max. 200 mm layer thickness per work stage)
- For leveller heights from 10 mm
- Insensitive to moisture, rot or vermin

- Low weight
- Good thermal insulation
- For loads up to 5 kN/m² with the corresponding screed construction acc. to DIN 18560-2
- Corresponds to a bonded bulk leveller acc. to BEB Code of Practice 4.6 section 2.

Field of application

Staubex® plus is used for levelling uneven floors in old and new buildings. It easily facilitates application of constructions for sound insulation and thermal insulation. Staubex® plus can be applied as stable and high load capable bulk leveller on all conventional basic ceilings under wet and mastic asphalt screeds on full surfaces in rooms with pipes and/or electrical installations acc. to DIN 18560-2 and acc. to BEB Code of Practice 4.6 "Instructions for planning and application of floor constructions with pipes, wiring and fittings on basic ceilings" (German only).

Application

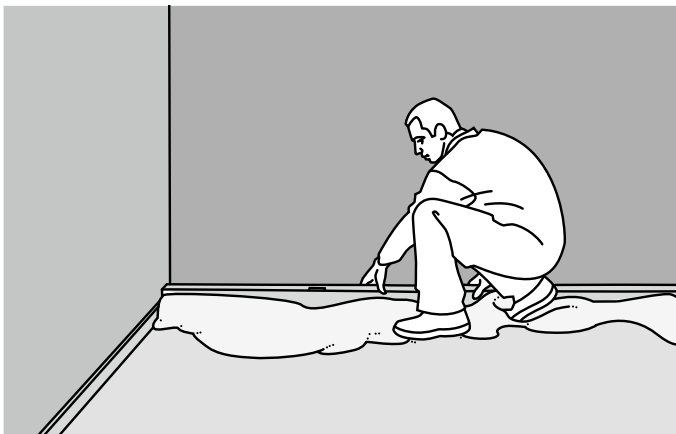
Substrate and pretreatment

Note Staubex® plus is suitable for all common ceiling types. Do not use on wooden plank stack slab ceilings.

The substrate must be stable, clean and the surface must be dry. Ensure that there is a fully stable, load-bearing substrate made of planks or wooden composite boards with wood joist ceilings. Apply permeable trickling protection on wooden substrates (e.g. Knauf Schrenzlage synthetic coated kraft paper) and apply on the walls and other rising constructional components. In case of application over dead floor level with Staubex® plus only if sufficient load bearing capacity of the dead floor is assured. On reinforced concrete coverings, lay an approx. 0.2 mm thick PE foil (as protection against any possible rising residual moisture) overlapped by at least 20 cm and apply up to the construction height on the walls. In case of concrete slabs contacting the soil, apply sealing acc. to DIN 18533, e.g. apply Katja Sprint sealing membrane underneath Staubex® plus.

Application

Check the location and construction design of installations (pipes, cables, ducts, and similar). Clean the raw ceiling, apply edge insulation strips (edge insulation strips for mastic asphalt screeds must be resistant to installation temperature of 250 °C) or apply after compression of Staubex® plus before installing the last insulation material layer.

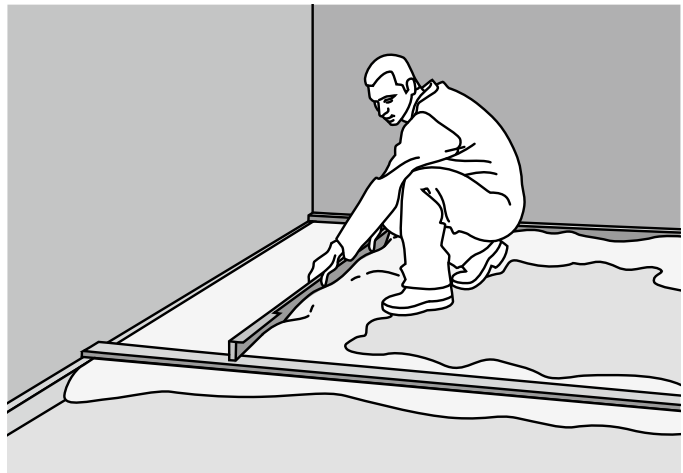


A rule mark is applied to the walls at spacings of 2 m. The floor height / bulk leveller height is marked using this rule mark as a reference. Please note that the Staubex® plus bulk leveller must be applied **with about 10 % excess height** (to allow for the subsequent compaction by walking) **or 15 %** (with mechanical compaction) to compensate for subsequent compaction and thus achieve the required installation height.

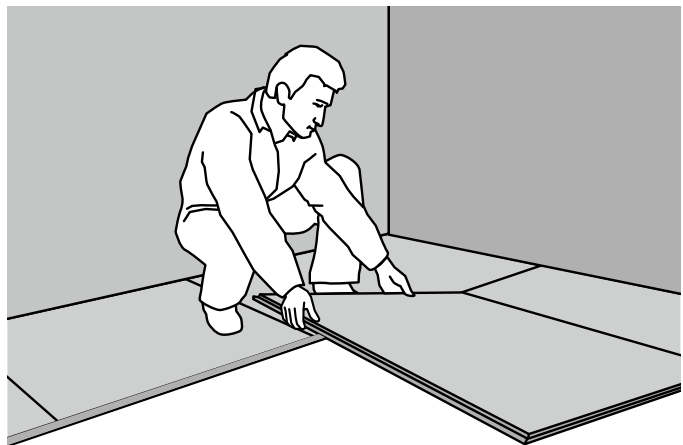


Staubex® plus is spread between two guides or rails and smoothed using

a lath or straight edge. The minimum bulk leveller height of 10 mm (even over unevenness or pipes) must be observed. Do not walk on the bulk leveller to avoid undesired compaction.



Without walking on the levelling layer, the Fasoperl®-A8 boards are laid starting at the door and extending across the entire surface while avoiding cross joints. This facilitates walking. In order to avoid high traffic routes, it can be useful to cover the Fasoperl®-A8 boards on the frequently used routes with formwork sheets.



Up to 60 mm bulk leveller and maximum area load of 3 kN/m² is compacted by walking on the full surface of the Fasoperl®-A8 boards or alt. 40 or 60 mm thick EPS boards (typ DEO, compressive strength ≥ 100 kPa at 10 % buckling). Start at the perimeter around the walls and work towards the center of the room.

Alternatively or at bulk leveller heights exceeding 60 mm to 200 mm or area loads exceeding 3 kN/m², the Staubex® plus exclusively covered with Fasoperl®-A8 is compacted with a hand stamper or mechanically compacted using an electrical area vibrator on laid form panels.

Covering and screed thickness acc. to DIN 18560-2 (for mastic asphalt screed a temperature-resistant covering of insulation layer with ribbed cardboard, non-woven glass mesh or similar is required).

Install the flowing screed as a base layer as the preferable option to protect the applied base. In case screed material is not pumped through hoses to the installation location, transport the screed mortar over laid-out planks to protect the insulation layer.

As no drying or setting times are required with Staubex® plus, subsequent work can be undertaken immediately after compaction.

Drawings acc. to BEB Code of Practice 4.6

Notes

Compliant to DIN 185602

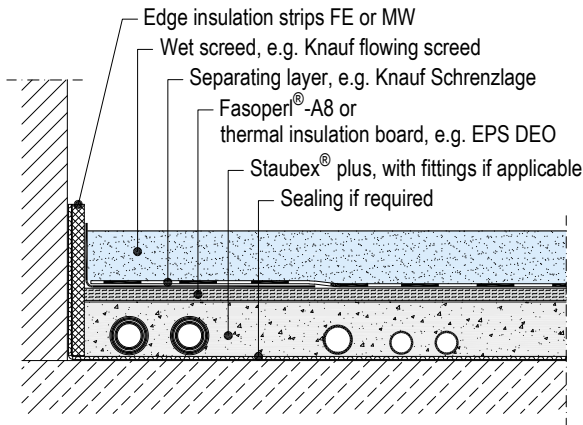
In the installed state the Knauf bulk leveller granulate sticks together and interlocks. Thus a material results that complies with the demands on a levelling layer in *bound form* acc. to DIN 18560-2.

Compliant to BEB Code of Practice 4.6

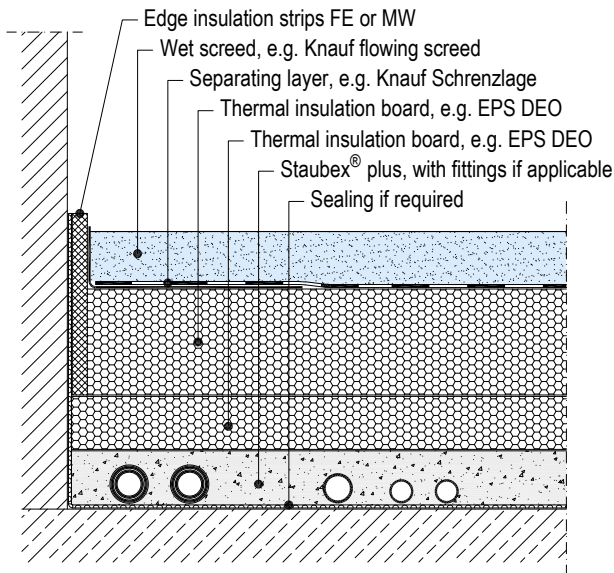
Grains bond together when compacted. Interconnected components can be removed during fitting that can manually crumble back to grain form.

Levelling in combination with insulation panels

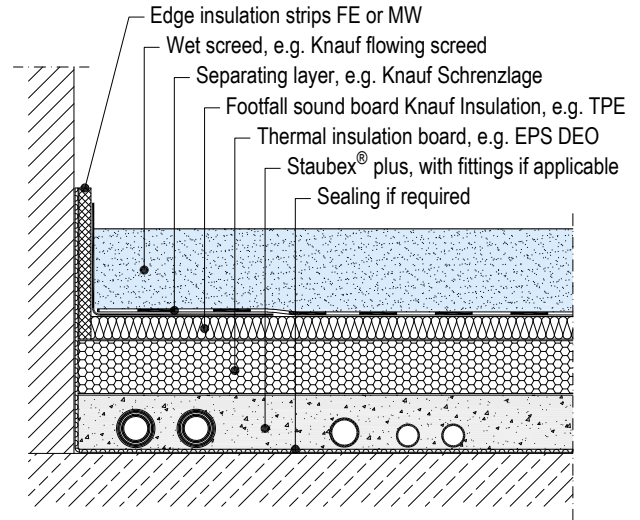
1a



1b

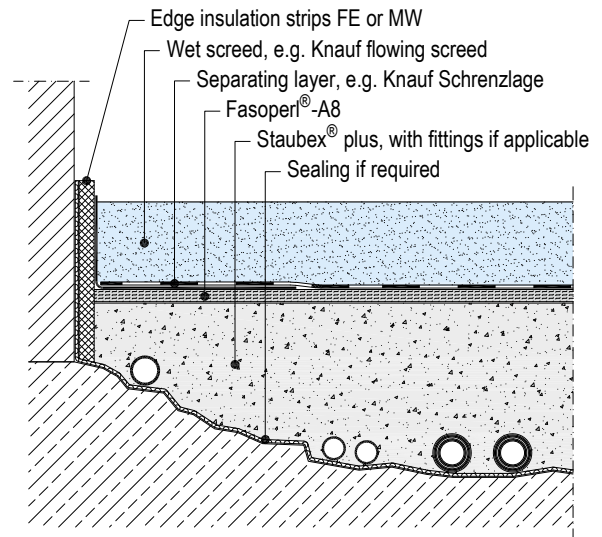


1c

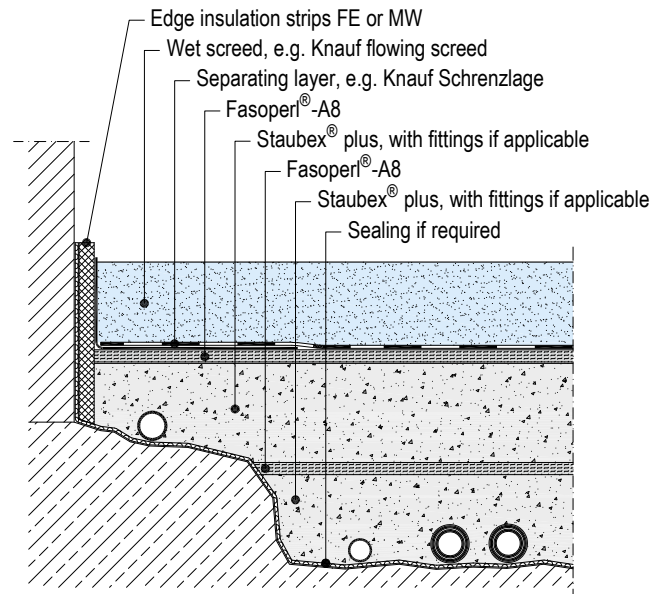


Levelling of fittings, uneven and inclined substrates

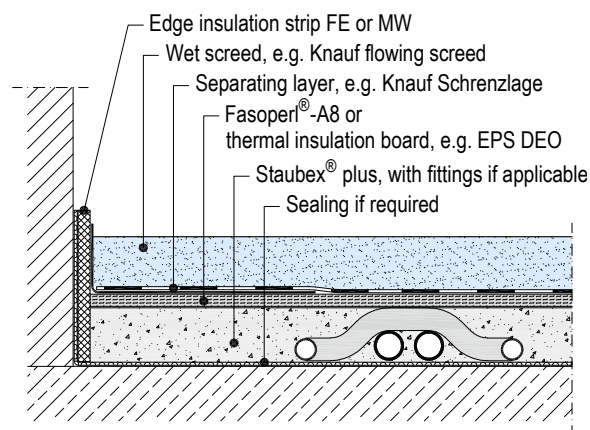
2a



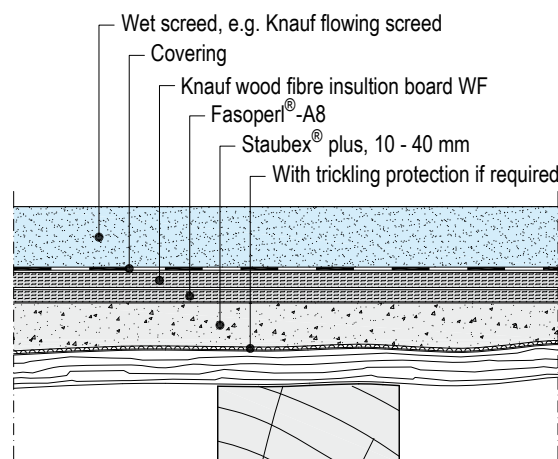
2b



Fittings with intersection points



Substrate equalization on wood joist ceiling



Technical data

Description	Standard	Unit	Staubex® plus
Graining	–	mm	0 – 6
Bulk density ρ_s in non-compressed state	–	kg/m ³	approx. 140
Leveller height per layer	–	mm	10 – 200
Rated value of thermal conductivity λ_B	–	W/(m·K)	0.063
Rated value of thermal conductivity λ_D	–	W/(m·K)	0.061
Building material class	–	–	Flammable
Reaction to fire	DIN EN 13501-1	–	E
Compressive strength (compressive stress with 10 % compression)	–	kPa	≥ 70
Water vapour diffusion resistance μ	–	–	3
Application	DIN 4108-10	–	DEO
European technical rating (approval)	–	–	ETA-17/0500

Material requirement and efficiency

Material	Consumption per m ² and 1 cm levelling
Staubex® plus	Approx. 11 – 11.5 l depending on the compaction

Product range

Description	Application	Packaging unit	Material number	EAN
Staubex® plus	150 l/bag	20 bags / pallet	000582715	4003352716779



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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