

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

F473a.de

Product Data Sheet

2021-03



Staubex®

Pressure-resistant bulk leveller made of expanded perlite

Product description

Staubex® is a bulk dry leveller made of perlite expanded volcanic rock for height equalization and for thermal insulation under wet and mastic asphalt screeds in acc. to DIN 18560-2. Staubex® 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-20/0792, 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
- Non-combustible
- Resistant to high temperatures

- 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
- Dust-bound

Field of application

Staubex® is used for levelling uneven floors in old and new buildings. It easily facilitates application of constructions for sound insulation, fire protection and thermal insulation.

Staubex® can be applied as stable and high load capable bulk leveller on all conventional basic ceilings under wet and mastic asphalt screeds acc. to DIN 18560-2 or on the full surface in rooms with pipes and/or electrical installations 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® 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 in case of 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.

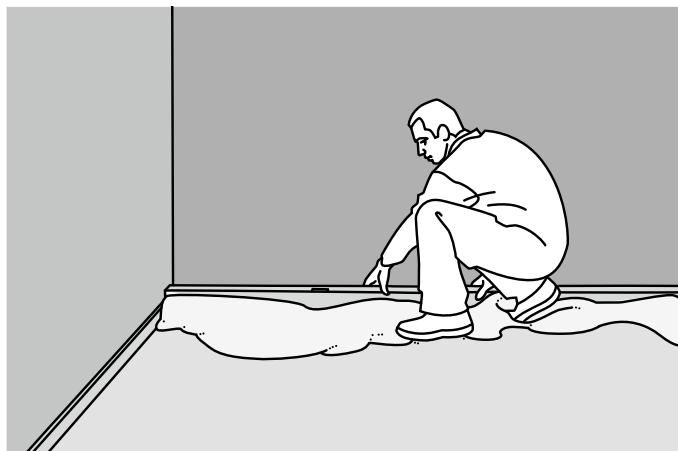
In case of application over dead floor level with Staubex®, only if sufficient load bearing capacity of the dead floor is assured.

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®.

Application

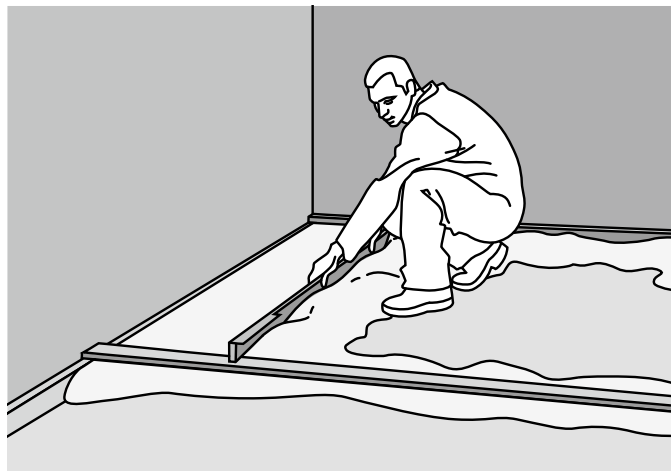
Check the location and construction design of installations (pipes, cables, ducts, and similar). Clean the raw ceiling. Apply edge insulation strips (edge insulation strips for mastic asphalt screeds must be resistant to installation temperature of 250 °C) or apply after compression of Staubex® before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



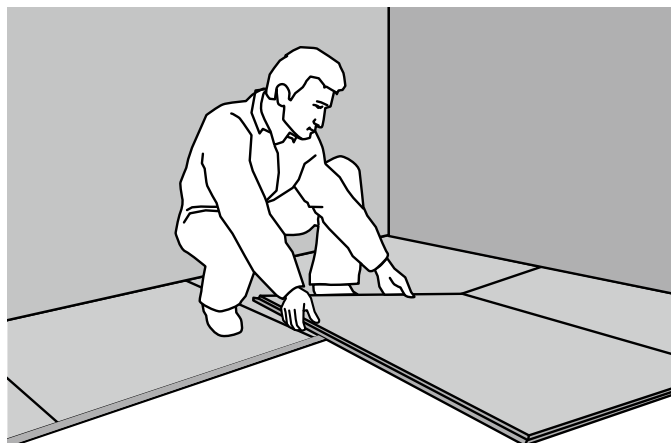
A rule mark is applied to the walls at spacings of 2 m. The floor height / bulk leveller height is marked using this rule mark as a reference. Please note that the Staubex® bulk leveller must be applied **with about 20 % excess height** to allow for the subsequent compaction and thus achieve the required installation height.



Staubex® is spread between two guides or rails and ruled flat 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.



Under mastic asphalt screed, insulation panels with low rigidity (e.g. mineral fibre footfall sound insulation panels) must be covered with sufficiently thick, deformation and temperature-resistant insulation panel.

Up to 40 mm bulk leveller and maximum area load of 3 kN/m², the Fasoperl®-A8 boards are compacted by walking on the full surface. Start at the perimeter around the walls and work towards the center of the room.

Alternatively or at bulk leveller heights exceeding 40 mm to 200 mm or area loads exceeding 3 kN/m², Staubex® is compacted with a hand stamper or mechanically compacted using an electrical area vibrator on laid formwork 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).

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®, subsequent work can be undertaken immediately after compaction.

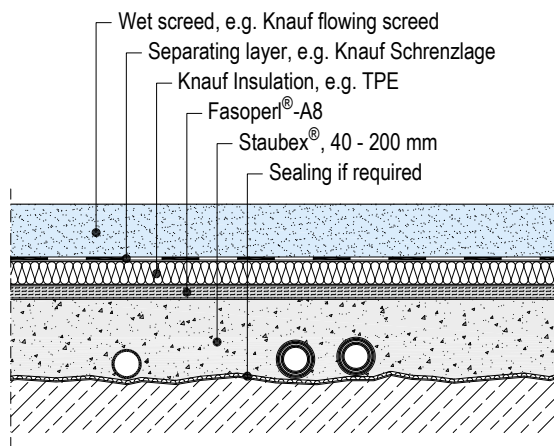
Drawings

Notes

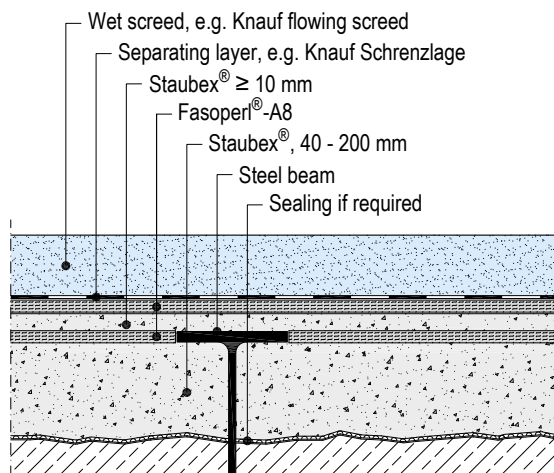
Bonded form acc. to DIN 18560-2
 In the installed state, the Knauf bulk leveller granulate interlocks. Thus a material results that complies with the demands on a levelling layer in *bonded form* acc. to DIN 18560-2.

For heights exceeding 200 mm, install two or three layers. Cover and seal every Staubex® layer with Fasoperl®-A8. The next layer of Staubex® is applied on the Fasoperl®-A8 that has already been laid.

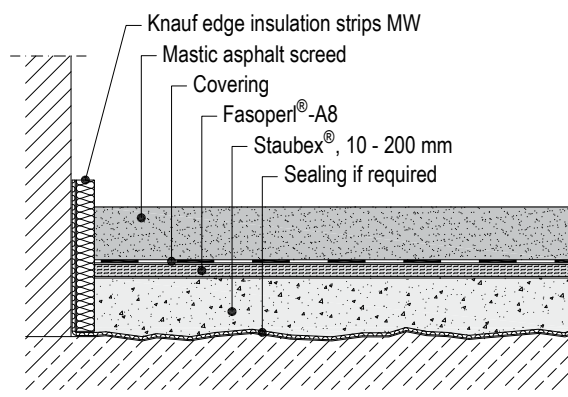
Substrate equalization with pipes



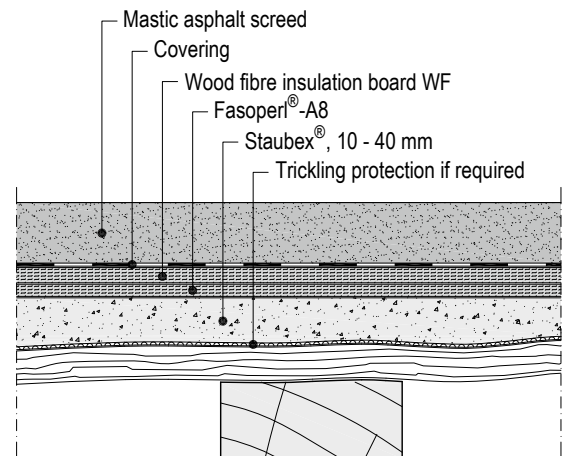
Substrate equalization on steel girder ceiling



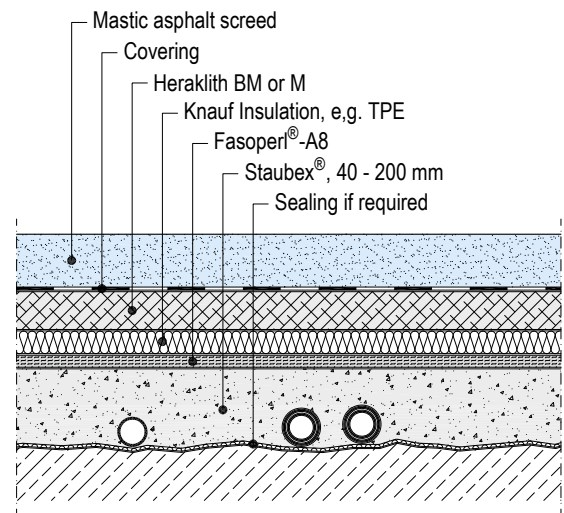
Substrate equalization on concrete substrate



Substrate equalization on wood joist ceiling



Substrate equalization with pipes



Technical data

Name	Standard	Unit	Staubex®
Grain size	–	mm	0 – 6
Bulk density ρ_s in non-compressed state	–	kg/m ³	approx. 90
Leveller height per layer	–	mm	10 – 200
Rated value of thermal conductivity λ_B	–	W/(m·K)	0.052
Rated value of thermal conductivity λ_D	–	W/(m·K)	0.050
Building material class	–	–	Non-combustible
Reaction to fire	Acc. to 1996/603/EC	–	A1
Compressive strength (compressive stress with 10 % compaction)	–	kPa	≥ 130
Water vapour diffusion resistance μ	–	–	3
Application	DIN 4108-10	–	DEO
European Technical Assessment	–	–	ETA-20/0792

Material requirement and efficiency

Material	Consumption per m ² and 1 cm levelling
Staubex®	Approx. 12 l depending on the compression

Product range

Name	Application	Packaging unit	Material number	EAN
Staubex®	100 l/bag	24 bags / pallet	00077861	4003352121009
	150 l/bag	20 bags / pallet	00086759	4003352121139

Sustainability and environment

Short description	Unit	Value
Certificate	–	eco-INSTITUTE



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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