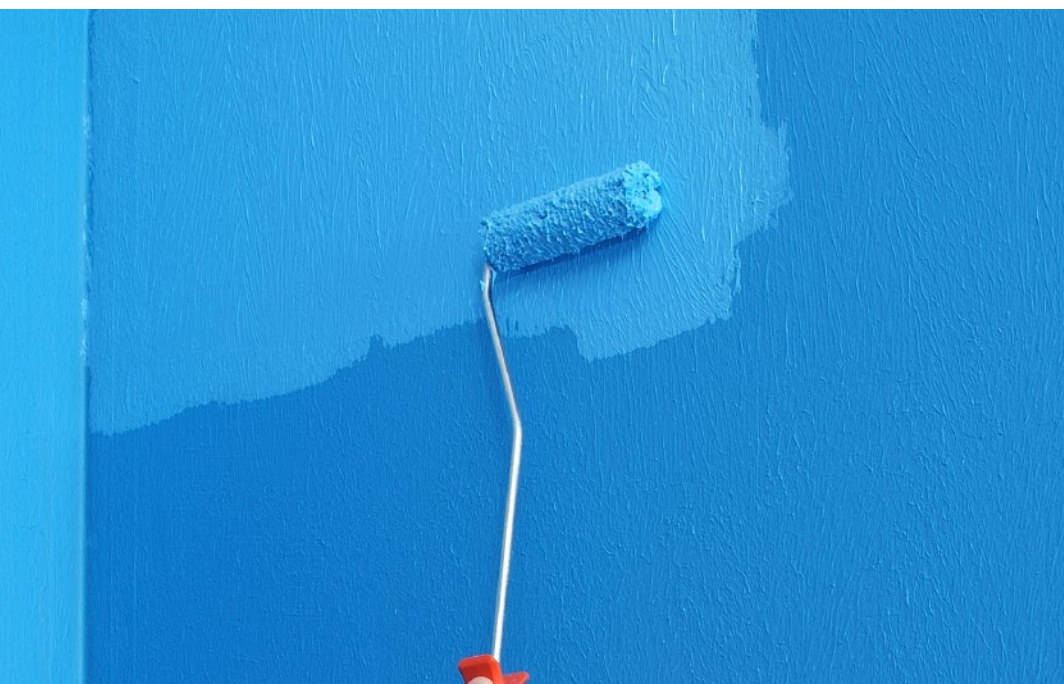


Note on English translation / Hinweise zur englischen Fassung

This is a translation of the technical 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.



Drywall Systems

K435.de

Product Data Sheet

2016-02



Knauf Flächendicht sealant

Sealant for composite sealing

Product description

Knauf Flächendicht sealant is a ready-to-use sealing compound on a synthetic latex and inert filler basis. It is solvent-free and physiologically inert. Its application and use is not subject to any limitations in acc. with the Ordinance on Hazardous Substances. A flexible, water impermeable layer is formed by drying of the compound.

Storage

Store Knauf Flächendicht sealant protected against frost. It can be stored for up to approx. 18 months in the original sealed container.

Quality

In compliance with ETA-13/0508, the product is subject to initial type testing and continuous factory production control and bears the CE mark.

Field of application

Knauf Flächendicht sealant is used for composite sealing under tiles and board linings.

It adheres to almost all surfaces such as concrete, light concrete, aerated concrete, lime plaster, cementitious plasters and gypsum plaster, gypsum boards, gypsum fibre boards and cement boards, masonry, stone, timber, chipboard and wood fibre boards, rigid foam boards, old tiling, calcium sulphate flowing screeds, mastic asphalt screed, magnesite floor screed and cementitious screeds.

Suitable for moisture-resistance classes A0 as well as A (wall) according to building regulatory list A (AbP P-DD 4608/1/2011), as well as A0 in

accordance with Code of Practice No. 5 "Bathrooms and wet rooms in timber and drywall construction" of the IGG in the BVG, as well as in accordance with ETAG 022 "Watertight covering kits for wet room floors and or walls" part 1: "Liquid applied coverings with or without wearing surface".

Area of application: Damp and wet rooms without pressure exerting water, such as in bathrooms, kitchens, showers in residential buildings, in hotels, wellness areas, residential care homes and hospitals.

Intended for indoor application.

Properties and added value

- Easy to apply, does not drip off on vertical surfaces thanks to its thixotropic setting
- Good adhesion for all common substrates
- Solvent-free
- Impermeable to water, resistant to aggressive water, microbial resistant
- Permeable to water vapour, only minimal water vapour retarding characteristics
- High expansion capabilities and also suitable for application on underfloor heating systems
- Temperature-resistant up to approx. +80°C
- High resistance to ageing
- Crack-bridging for optimum protection

Application

Substrate

The substrate must be stable, clean, dry, and free of oil, grease and release agents. Remove loose parts such as dust, paint and mortar residues.

Seal cracks, joints and flaws with a frictional bond before sealing.

Ingress of moisture from the substrate, e.g. through the exterior walls or the floor must be excluded.

Application

Stir before use.

Prime the substrate with Knauf Flächendicht sealing primer (diluted 1:4 with water), Knauf Spezialhaftgrund floor dispersion primer (diluted 1:2 with water) or Knauf Tiefengrund primer (undiluted). Apply the primer with a lambskin roller, brush or spatula and allow to fully dry.

Floor surfaces (screed, concrete, pre-fab floor screed) can be primed as an alternative with Knauf Estrichgrund screed primer (diluted 1:1 with water). Knauf Flächendicht sealant is applied without application of a primer to Knauf Stretto. The first, undiluted coat is applied with a spatula. At least two further undiluted coats are required.

Embed Knauf Flächendichtband sealing tape along the wall/wall and wall/floor connections into the first undiluted coat and push it in for an even surface.

The first coat of Knauf Flächendicht sealant must be applied generously and to the full surface undiluted with a lambskin roller, brush or spatula. After the first coat (approx. 2 – 3 hours) has fully dried, apply the second coat similarly. Before applying tiles, allow Knauf Flächendicht sealant to fully dry (approx. 6 hours).

For porous substrates such as aerated concrete, an undiluted triple-layer application is recommended.

Adhere to the minimum application quantity (see material requirement), wet layer thickness 0.8 mm to ensure that the minimum dry layer thickness of 0.5 mm is archived.

Application time

Only apply the next coating when the previous coating is fully dry. Minimum waiting time: Approx. 2 – 3 hours (at +23 °C and 50 % relative air humidity).

The drying time is extended with higher levels of air humidity or lower temperatures.

Application temperature/climate

Ambient and substrate temperature during application: +5 °C to +25 °C (favourable: more than +10 °C).

Notes

Bonding of tiles onto Knauf Flächendicht sealant must be undertaken using a water resistant powder-based adhesive (e.g. Knauf Flexkleber Multi tile adhesive).

Ready-to-use dispersion adhesive or reaction resin adhesive are not suitable for use on Knauf Flächendicht sealant.

Knauf Flächendicht sealant can be pigmented using most commercially available full shade tinting paints (up to a maximum of 2 percent by weight).

Drying time before tiling approx. 6 hours (at 23°C and 50 % relative humidity).

Knauf Flächendicht sealant may not be used as a wearing surface or in permanently wet areas.

Technical data

Description	Unit	Value	Standard
Reaction to fire	Category	E	EN 13501-1
Dry film thickness	mm	≥ 0.5	–
Water vapour diffusion-equivalent air layer thickness s_d (with 1000g/m ² application quantity)	m	2.3	ETAG 022
Crack bridging ability	Class	1	ETAG 022
Bond strength	Class	2	ETAG 022
Joint bridging ability	Class	2	ETAG 022
Water tightness around penetrations	Class	2	ETAG 022
Resistance to temperature	Class	2	ETAG 022
Resistance to water	Class	2	ETAG 022
Resistance to alkalinity	Class	2	ETAG 022

The stated technical data were evaluated acc. to the respective test standards. Deviations under site conditions are possible.

Material requirement / efficiency

Substrate	Consumption approx. in kg/m ²	
	per coating	total
Smooth (e.g. Knauf boards)	250 – 300	750 – 900
Coarse (e.g. concrete)	300 – 450	900 – 1400

The material requirement depends on the roughness and absorption properties of the substrate as well as the required effectiveness of the sealing.

Product range

Product description	Packaging unit Bucket/pallet	Material number
Knauf Flächendicht sealant 5 kg bucket	100	00007366

Knauf Direct

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