

**Knauf**  
**Waterproofing**  
**One-component Waterproofing Compound**



- Fields of application:**
- m Use on **walls** und **floors**.
  - m Use **indoors**.
  - m **Polymer dispersion waterproofing material** to receive ceramic tiles and natural stones 8in combination with Knauf Flächendichtband / Waterproofing Tape and cement based tile adhesives (e.g. Knauf Flexkleber 25plus / Flexible Tile Adhesive 25plus).
  - m **Use for residential and light commercial showers, bathrooms** and other rooms with similar moisture treatment.
  - m **For use on moisture sensitive substrates** such as gypsum plaster, plaster boards, gypsum fiber boards, and gypsum based screeds.
  - m **For use on e.g.:** lime-, lime-cement-, cement plasters, cement boards, cement based screeds, concrete, gas concrete.
  - m **Also to receive ceramic tiles and natural stones on heated substrates** (floor and wall heating).
- Properties:**
- m **Crack bridging up to 2mm:** to offer high security even in cases of subsequent cracks.
  - m **Prevents moisture from above.**
  - m **Easy to work with.**
  - m **Ready to use and solvent free.** Compatible to silicones.

**Technical Data:****Application Data**

<i>Application- / substrate temperature:</i>	+5°C to +25°C
<i>Wet film thickness:</i>	approx. 1,1 mm
<i>Film thickness after drying:</i>	approx. 0,8 mm
<i>Dilution:</i>	
§ <i>used as primer:</i>	1 : 4 with water
§ <i>used as waterproofing film, each coat of paint:</i>	undiluted
<i>Drying time*</i>	
§ <i>used as primer**:</i>	approx. 3 h
§ <i>used as waterproofing film:</i>	each approx.. 3 h
§ <i>before laying tiles:</i>	at least. 12 h
<i>Material requirement of each coat of paint per m<sup>2</sup></i>	
§ <i>at rough, porous substrates:</i>	approx. 300 to 450 g / m <sup>2</sup>
§ <i>at smooth substrates:</i>	approx. 250 to 300 g / m <sup>2</sup>
<i>Material requirement per m<sup>2</sup> **</i>	
§ <i>at rough, porous substrates:</i>	approx. 900 to 1400 g / m <sup>2</sup>
§ <i>at smooth substrates:</i>	approx. 750 to 900 g / m <sup>2</sup>
<i>Efficiency**</i>	
§ <i>5kg bucket:</i>	approx. 3,5 to 5,5 m <sup>2</sup>
<i>Temperature resistance range after drying:</i>	-20°C to +80°C

\* Standard values at +23°C and 50% relative humidity.

\*\* Depends on absorption properties of the substrate.

**Material Data**

<i>Material basis:</i>	Aqueous dispersion of synthetic latex and inert fillers
<i>ph value:</i>	approx. 8,5 bis 9,5
<i>Density:</i>	approx. 1,55 kg/l
<i>Viscosity:</i>	approx. 15.000 mPa·s
<i>S<sub>d</sub> value</i>	approx. 1,5 m
<i>Color:</i>	blue
<i>Odour:</i>	weak
<i>Shelf life:</i>	12 months
<i>Storage:</i>	Cool and dry. Do not expose bucket to sun. Keep from freezing.
<i>Supplied as:</i>	5 kg PE bucket

**Ident. number / EAN code**

5 kg: 7366 / 4006379044498

**Material Safety Data in accordance with GefStoffV (Catalogue of Hazardous Materials)**

No hazardous material content / no hazard marking or labelling.

**Material Safety Instructions for Skin and Eye Contact**

Do not allow *Knauf Flächendicht / Waterproofing* to dry on human skin. Upon contact, rinse the skin area thoroughly with soap and water. If there is a danger of splashing on jobsites, use protecting eye-ware. Upon any contact with the eyes, rinse eyes thoroughly with clear, flowing water. If any irritation persists, consult an eye specialist.

**Substrates:**

*Knauf Flächendicht / Waterproofing* requires a solid substrate that is clean, dry and free of all kinds of oil, grease, wax, curing compounds, latex compounds and all foreign matter. Incoherent parts such as dust, varnish- and mortar rests must be removed.

Cracks and joints in the substrate must be filled. Unevenness in the substrate must not be

filled with *Knauf Flächendicht / Waterproofing*! They should be filled with *Knauf Universalspachtel schnell / Universal Spatula fast curing* (in case of cement based substrates) or *Knauf Uniflott impregnated* (in case of gypsum based substrates) before the application of *Knauf Flächendicht / Waterproofing*.

If the substrate is primed with *Knauf Tiefengrund / Penetrating Primer* priming of the substrate with diluted *Knauf Flächendicht / Waterproofing* is not necessary.

Chalking substrates should be primed with *Knauf Tiefengrund / Penetrating Primer*.

Water-resistant paints must be roughened and cleaned from dust. They also should be primed with *Knauf Tiefengrund / Penetrating Primer*.

Prime porous substrates like pore concrete with *Knauf Spezialhaftgrund / Special Bonding Primer*.

Ascending moisture coming e.g. from exterior walls or from the floor must be excluded.

Cement based screeds are not allowed to have more than 2%, gypsum based screeds not more than 0.5%, plasters not more than 1% and heated substrates not more than 0.3% residual moisture. Plasters must be applied regarding DIN 18550.

#### Application Method:

In order to waterproof substrates one priming coat (not necessary if the substrate is primed with *Knauf Tiefengrund / Primer* or *Knauf Spezialhaftgrund / Special Bonding Primer*) and at least two entire coatings with undiluted *Knauf Flächendicht / Waterproofing* are necessary. The final coating must have the minimum thickness over the entire area given in table: application data.

**Before use:** Stir *Knauf Flächendicht / Waterproofing* very well.

**Priming coat:** Prime the substrate with *Knauf Flächendicht / Waterproofing* 1 part *Knauf Flächendicht / Waterproofing*: 4 parts water).

**Waterproofing coat (2 to 3 coatings):** Upon complete drying of the priming coat the first waterproofing coat is applied with a paint roller, paint brush or a spatula. The coating should be applied luscious (but not too thick) and thoroughly over the entire area. The consumption required please find in table application data.

In the area of wall/wall- and wall/floor-connections as well as corners *Knauf Flächendichtband / Waterproofing Tape* is laid and pressed in the fresh, first waterproofing coat. Pipe lead-ins and floor drains are sealed the same way by using *Knauf Dichtmanschetten / Pipe lead-in Tapes*.

Apply the second and third waterproofing coat after complete drying of the prior coat. At least drying time: approx. 3 hours (at +20°C and 50% rel. humidity). Higher humidity and lower temperatures lead to longer drying and curing times.

In case of porous substrates three coatings with undiluted *Knauf Flächendicht / Waterproofing* are recommended.

Minimum film thickness must be observed (see table application data). A higher film thickness leads to long drying times. The application of *Knauf Flächendicht / Waterproofing* in several coating steps should be preferred.

#### Laying tiles:

Upon complete drying (at least 12 hours after the application of the last coat) the substrate is ready to receive ceramic tiles or natural stones. For laying tiles a water-resistant, hydraulic setting, flexible tile adhesive (e.g. *Knauf Flexkleber 25plus / Flexible Tile Adhesive 25plus*) must be used. To fill the grouts a flexible grout mortar (e.g. *Knauf Flexfuge schnell / Flexible Grout Mortar fast setting*) is recommended.

PLEASE NOTE: Ready mixed dispersion tile adhesives like *Knauf Superkleber / Super-Adhesive* are inapplicable on *Knauf Flächendicht / Waterproofing*. This is due to the long drying times of such kind of adhesives.

#### Further information:

- ! Do not use *Knauf Flächendicht / Waterproofing* at ambient and / or substrate temperatures below +5°C or above +30°C. High ambient temperatures or heated substrates will shorten the application time considerably. Direct sunlight and draughts should be avoided during application.
- ! Apply *Knauf Flächendicht / Waterproofing* always on the side of the construction which is exposed to moisture.

- ! No other pigmenting agent except Knauf Compact-Color should be mixed with Knauf Sperrgrund Block & Bond.
- m Do not mix *Knauf Flächendicht / Waterproofing* with other materials than water and in maximum 6g Knauf Compact Color (per 5kg bucket *Knauf Flächendicht / Waterproofing*).
- m *Knauf Flächendicht / Waterproofing* can be pigmented in order to differ the different coatings. For this purpose Knauf Compact Color can be used.
- m Never damage the waterproofing coating! A treatment with sharp-edged or spiky objects must be avoided. There fore *Knauf Flächendicht / Waterproofing* is not recommended as a final surface.
- m Tiling must occur with solvent free, hydraulic curing tile adhesives. Ready mixed dispersion tile adhesives cannot be used!
- m Before the application of the 2nd or 3rd coating as well as before the setting of tiles, the coatings applied prior have to be cured and dried completely.
- m Clean all application tools immediately after onsite operations with sufficient warm water. After curing the successful removal of *Knauf Flächendicht / Waterproofing* might only occur mechanically.

**Limits of application:**

- m *Knauf Flächendicht / Waterproofing* is not approved to be used in durable ponded water areas such as drinking water reservoir, fountains and swimming pools.
- m *Knauf Flächendicht / Waterproofing* is not approved to be used in earth touched areas.

**Notes:**

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**With this technical data sheet every prior data sheet is void.**

Iphofen, March 2008