

**Knauf**

# Levelling Compound Fiberflex 15

high efficiency levelling compound, fibre reinforced



Technical Data Sheet 05.08



- Fields of application:**
- m For floors
  - m For interior and exterior application
  - m For coat widths of between 2 and 15 mm
  - m For forming a level surface on wooden surfaces (e.g. wooden floorboards, waterproof chipboards (V 100), etc.). A reinforcing tape is not necessary
  - m For leveling on substrates which are under high thermal stress (e. g. floors with floor heating systems) as well as to even out on all substrates that are used in building industry (e.g. concrete, calcium sulfate-, cement- and mastic asphalt, old tilings, cement fiber-, gypsum-, gypsum fiber boards and dry under floors)
  - m For forming an ideal surface for parquet flooring and further floor coatings such as cork, linoleum, textile coatings, PVC- coatings, laminate, ceramics and natural stones
  - m As a top layer on substrates which are highly under stress in domestic and limited commercial areas, e.g. workshops, private garages, etc.

- Properties:**
- m Self leveling, highly plastic-modified, hydraulic hardening leveling compound
  - m Fiber reinforced: to even out on wooden floorboards, chipboards (V100), etc.
  - m Flexible: especially suitable on heating screeds, old tilings, etc. as well as surfaces for parquet flooring
  - m Fast hardening and highly burdening: can already be walked on after 4 hours
  - m Low-stressed hardening: Cracking is almost impossible
  - m Recommended by the initiative living space hygiene: "Very low-emission and low odor".
  - m Frost resistant
  - m Also applicable with machines

**Technical data:**

**Application data**

**Knauf Levelling Compound Fiberflex 15**

<i>Thickness of coat:</i>	from 2 to 15 mm
<i>Processing temperature:</i>	+5°C to +25°C
<i>Mixing ratio (regarding 20 kg powder):</i>	5,2 l water
<i>Processing time*:</i>	approx. 20 minutes
<i>Room weight:</i>	
§ <i>wet:</i>	approx. 2,0 kg/l
§ <i>dry:</i>	approx. 1,8 kg/l
<i>Hardening time*</i>	
§ <i>accessible after:</i>	approx. 4 hours
§ <i>completely loadable after:</i>	approx. 24 hours
<i>Verifiable with</i>	
§ <i>water vapor resistant coatings</i> <sup>*)**</sup> :	approx. 24 hours
§ <i>coatings open to water vapor*</i> :	approx. 24 hours
<i>Strength after 28 days (guideline)</i>	
§ <i>compressive strength:</i>	28 N /mm <sup>2</sup>
§ <i>flexural strength:</i>	6,5 N / mm <sup>2</sup>
<i>Consumption per m<sup>2</sup> and mm thickness of coating:</i>	approx. 1,5 kg
<i>Coefficient of thermal expansion:</i>	ca. 0,01 mm/(m · K)
<i>Temperature resistance:</i>	-20°C to +80°C

\*at +23°C and 50% humidity.

\*\*the residual moisture has to be at maximum 2, 5 % of the weight before laying coatings that are resistant to water vapor, e. g. PVC. Test with a CM- machine

**Material data**

<i>Material basis:</i>	Dry mortar consisting of cement, quartz- and lime stone meal, poly vinyl acetate –copolymer, cellulose ether, polypropylene fibers
<i>Shelf life:</i>	Minimum 12 months
<i>Storage conditions:</i>	Cool and dry
<i>Delivery form:</i>	1 kg block floor bag; 20 kg beading floor bag
<i>Ident.-Nummer/ EAN-Code:</i>	<b>Knauf Levelling Compound Fiberflex 15</b> 5 kg: 47840 / 40 06379 05575 3 20 kg: 47841 / 40 06379 05576 0

**Material safety data in accordance with GefStoffV (catalogue of hazardous materials)**

**Xi-irritant;**

contains cement; irritates skin. Danger of serious eye injuries

Keep out of the reach of children. Do not inhale dust. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective gloves during use. If ingested seek medical advice immediately and show this container or label.

**Less chromate in accordance with TRGS 613**

**GISCODE ZP 1**



- Substrate:** The surface has to be stable, dry, hard, clean, free-from dust and separating agents. Remove non waterproof coatings and other residues reducing the adhesion. Sand waterproof coatings strongly
- Before applying edge insulating strips are necessary, avoid an inflexible connection to the wall. Expansion joints due to construction have to be taken over.
- Fill exclavations and holes with Knauf *Reparaturspachtel*, connect cracks frictional with a suitable viscous reaction resin
- When leveling on areas with floor heating systems the heating must be switched off, the surface should be at maximum 25°C and at minimum +5°C
- Please keep in mind the following remarks before leveling on wooden floorboards or floors consisting of chipboards:
- Wooden surfaces have to be damp-proof. Wooden surfaces have to be free from pests, wax, lacquer, etc. Wooden floorboards should be abraded; sanding dust has to be removed thoroughly. Unfixed floorboards have to be fixed. Close joints and thin cracks on wooden floorboards with Knauf *Acryl*. Close exclavations, holes, etc. with Knauf *Repair Filling Compound* mixed with Knauf *Adhesive and Floor Elast*
- Waterproof chipboards (V100) have to be screwed and glued in groove and tongue
- Priming:** Prime highly absorbent surfaces like old sand stone coatings with Knauf *Special Bonding Primer* (1:4 diluted with water)
- Prime absorbent surfaces like cement-, calcium sulphate screeds, gypsum- and gypsum fiber boards, etc. with *Knauf Primer plus* (ready-made)
- Prime hard or non absorbent surfaces such as mastic asphalt, cement fiber boards etc. with Knauf *Special Bonding Primer* (1:2 diluted with water)
- Prime wooden surfaces with Knauf *Special Bonding Primer* (1:1 diluted with water)
- Prime dense surfaces such as old tiling, terrazzo and board coatings with Knauf *Special Bonding Primer* (undiluted)
- Wait with following working processes until primer has completely dried
- Stirring:** Use a clean bin. Mix 20 kg Knauf *Levelling Compound Fiberflex 15* with 5,2 l water using a stirrer (maximum 600U/min) to an even, flowable consistency free of knots
- When leveling on bigger surfaces, Knauf *Levelling Compound Fiberflex 15* can be mixed and pumped (e.g. by a PFT-Mixing Pump G4/G5 or T2E) constantly. For further information see Technical Data Sheet: "Mechanical processing of surfaces".
- Application:** Pour Knauf *Levelling Compound Fiberflex 15* out off the bin onto the completely dried and primed surfaces. Support the flow out with a trowel, gutter board or serrated trowel.
- Keep a thickness of 2 mm as minimum-level for sufficient flowability and normal hardening behavior
- We recommend applying the leveling compound across the room. Use lane widths from 0,5 to 1 m, starting from the wall opposite the door to the entrance. Always use fresh material, so the new lanes can be connected with the already laid ones within approx. 10 minutes. The use of a serrated trowel is recommended to achieve an even thickness. These measures additionally support the flow out of the leveling compound. Possible transition layer between the lanes can be equalized.
- Further information:**
- m The material, ambient and background temperatures must not fall below +5°C and climb above +25°C
  - m High ambient air temperature or rather heated surfaces reduce the processing time  
Avoid direct sunlight as well as draft
  - m High temperatures of tempering water reduce the setting behavior (speed) of the leveling compound, low temperatures extend it
  - m Knauf *Levelling Compound Fiberflex 15* can be walked on after 4 hours at a temperature of 23°C. Refilling should be occurred immediately after the surface can be walked on. If the surface has already dried, prime with *Knauf Primer Plus* before

refilling

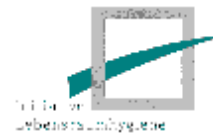
- m Use Knauf *Levelling Compound Fiberflex 15* when leveling on wooden floor- and chipboards
- m Apply floor coverings only when the leveling compound has completely dried (at the earliest after 24 hours). Using coats that are open to water vapor (e.g. ceramic tile coatings, natural stone coatings, cork) the residual moisture has to be  $\leq 3\%$  of the weight, on vapor-tight coatings (linoleum, textile coatings, PVC-coatings, laminate) it has to be  $\leq 2,5\%$  of the weight. Test residual moisture with a CM-device.
- m Mix only an amount of Knauf *Levelling Compound Fiberflex 15* which can be applied within 20 minutes. Knauf *Levelling Compound Fiberflex 15* that has already started to harden must not be mixed with water or Knauf *Levelling Compound Fiberflex 15* powder.
- m Do not mix any other materials to Knauf *Levelling Compound Fiberflex 15* than water
- m Clean all tools thoroughly with water after working

**Certificates:**

**Recommended by the initiative living space hygiene**

„Very low-emission and low odor: emissions fall below requirements of Federal Environment Agency already after 7 days“;

Testing institute: Hochschule für Technik, Fachhochschule Stuttgart.



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

Iphofen, May 2008