

Floor Leveling Compound FX 3109

Fußboden-Nivelliermasse FX 3109

**Very low-emission, low-tension, self-leveling,
fiber-reinforced, for interior use,
with Perimeter Insulation Strip SK 3018**

Properties

Very low-tension, fiber-reinforced, self-leveling compound. Very low-emission, rigid, highly synthetic resin modified, pumpable, low-tension, and can be applied particularly easily. With reinforcing effect due to embedded fibers. Furthermore, also suitable on floor surfaces with floor heating and for chair caster loads.

Field of application

For producing level interior floor surfaces for subsequent floor covering work with Design Floor 3055, carpeted floors, and PVC and CV coverings. Moreover, the filled floor surfaces (except on wooden floors) can also be sealed in the system build-up with Floortec 2K-Mineralico SL 470 as well as with Floortec PU Floor Sealer ELF 847, Floortec 2K-EP Floor Sealer 848 or Floortec 2K-Purolid F 878. Can be used on substrates made of e.g., concrete, cement screed, calcium sulfate-based screed (anhydrite floating screed, gypsum screed), ceramic coverings, and terrazzo. Also particularly suited for old substrates even those with waterproof adhesive residues.

Can be used on suitable and screw-fastened wooden floorboards, chipboards (V100), or OSB boards only with subsequent floor covering work.

Material description

Color shade: gray

Base material: modified special cement

Bulk density: approx.
1.10 g/cm³

Layer thicknesses:
At least 3 mm up to a maximum of 10 mm

Packaging: 25 kg/bag

Use

Water addition

Approx. 5.5 liters of water per 25 kg (per bag).

Mixing

Always mix the entire contents of a package. Pour a corresponding amount of cold, clear water into a clean container, add Floor Leveling Compound FX 3109 while stirring vigorously, and mix to a lump-free, liquid mass.

Make sure that the package is completely empty. For mixing, we recommend using a high-performance mixer (at least 900 watts) with approx. 600 rpm with a right-handed spiral stirring rod (plaster stirring rod). After a curing time of approx. 3 minutes, thoroughly mix the freshly mixed material again.

Application

Pour Floor Leveling Compound FX 3109 onto the prepared substrate and spread uniformly with Rubber Notched Squeegee 1324 (without serrated blade) or with Stainless Steel Smoothing Trowel 3792 in a layer thickness of at least 3 mm. Set the surface spreading knife approx. 2 mm higher than the layer thickness that is to be achieved. Then re-level again using a de-aerating roller. If possible, apply the desired layer thickness in one operation.

For multi-layered application, allow the first filling to dry for at least 24 hours (at +20 °C, 65% relative humidity) and prime with Multi Primer LF 3084 diluted 1:1 with water. Allow the prime coat to flash off for approx. 10 minutes. The prime coat must have dried sufficiently to be transparent.

With multi-layered filling, make sure that the second layer is executed more thinly than the first in order to avoid tension between the filling layers.

Floor Leveling Compound FX 3109 can also be applied with suitable screw conveyor devices and mixing pumps. Set up Perimeter Insulation Strip SK 3018 on all vertical construction components.

Pay attention to the layer thicknesses

Apply in at least a 3 mm layer thickness. The specified maximum layer thickness must not be exceeded, even with a two-layer filling.

Compatibility

Do not mix with other types of materials.

Consumption

Approx. 1.5 kg/m² per mm of layer thickness. Determine precise consumption quantities with a test application on the object.

Application temperature

Do not apply at an air and object temperature below +5 °C.

Pot life (at +20 °C /68 °F)

The prepared filling compound remains workable for approx. 30 minutes.

Do not stir, re-dilute, or rework already solidified material or material that is solidifying.

Tool cleaning

Clean tools immediately after use with water.

Drying (+20 °C, 65% relative humidity)

Can be walked on after approx. 3 hours. Ready for floor laying or further sealing (with a 5 mm layer thickness) after approx. 24 hours.

For an additional 5 mm layer thickness, allow for a longer drying time of at least 24 hours. Additional system build-up with Floortec 2K Mineralico SL 470 (with a 3 mm layer thickness) after 24 hours at the earliest. Allow for a longer drying time if the temperature is lower and/or the humidity is higher.

Storage

Store dry. Apply material within 6 months.

Declaration

Product code
ZP1.

The information in the current Safety Data Sheet is applicable.

Perimeter Insulation Strip SK 3018

Properties

Self-adhesive perimeter insulation strips made of high-quality PE foam.

Field of application

As a spacer to wall surfaces during leveling and filling work. Check compatibility and adhesion to the substrate, especially for finished surfaces, in advance by conducting a sample bond.

Material description

Color shade: white

Base material: polyethylene

Thickness: 5 mm

Height: 50 mm

Packaging: 25 m roll

Coating build-up

Substrate preparation

The substrate must be solid, permanently dry, clean, load-bearing, and free from efflorescences, sintered layers, separating agents, corrosive components, or other composite-damaging intermediate layers. The substrate must always comply with the relevant technical construction standards. The substrate must be protected against rising moisture. Bituminous coatings, water-swelling layers, and other soft layers must be completely removed. Check residues from, e.g., old primers, adhesives and filler materials for their suitability, load-bearing capacity, and adhesive properties. Remove non-load-bearing layers by, e.g., milling, sanding, or abrasive blasting. Sand down and thoroughly vacuum smooth or dense substrates. Mechanically sand down

and vacuum calcium sulfate-based screeds with grain size 16 sandpaper. Remove form oil and cement slurries from concrete surfaces and roughen vacuum concrete. Where necessary, deep clean terrazzo and ceramic floor coverings with e.g., Deep Cleaner R 3263, diluted 1:5 with water. Re-tighten the screws on loose or springy wooden floorboards or wooden chipboards. Replace damaged wooden floorboards. Wooden surfaces painted with waterproof paints must be free of wax, cleaning agent residues, and other separating agents. Sand painted wooden floors to a matte finish. For impermeable constructions, a deep cleaning can also be made before sanding using Deep Cleaner R 3263. Water-soluble coatings should be completely removed. Carry out required preparatory work, such as filling joints between

tightly-fastened wooden floorboards, spot leveling of transition areas, etc. after priming with Floor Filler 3145. For subsequent laying of floor coverings, cement screeds must exhibit a residual moisture of ≤ 2.0 CM-% (with floor heating, ≤ 1.8 CM-%), calcium sulfate-bound screeds, a residual moisture of ≤ 0.5 CM-% (with floor heating, ≤ 0.3 CM-%). See also VOB Part C, DIN 18365, Floor Covering Work. The substrate condition must be matched to the respective floor covering and should be taken from the product information of the covering manufacturer.

Filling floor surfaces

Substrate	Priming ²⁾	Pre-filling	Filling ⁴⁾
Concrete, cement screed	Multi Primer LF 3084, 1:3 diluted with water ³⁾	Depending on the requirements, Floor Filler 3145	Floor Leveling Compound FX 3109
Calcium sulfate-based screed (anhydrite floating screed, gypsum screed)	Multi Primer LF 3084, 1:1 diluted with water ³⁾		
Smooth and impervious concrete surfaces	Special Primer LF 3085, undiluted		
Terrazzo and ceramic floor coverings ¹⁾			
Floor surfaces with waterproof adhesive residues that have been removed as much as possible			
Wooden floorboards, chipboards (V100), OSB boards In accordance with DIN 68771 ²⁾	Multi Primer LF 3084, undiluted		

- ¹⁾ As substrate only suitable for subsequent floor covering work with Design Floor 3055, carpeted flooring, and PVC and CV coverings.
- ²⁾ Build-up and filling only with subsequent floor covering work (pay attention to Notes).
- ³⁾ Prime twice with Multi Primer LF 3084 in the event of high substrate absorbency.
- ⁴⁾ Carry out filling with leveling compound as soon as the floor can be walked on, if the Floor Filler 3145 is still moist, or after 24 hours drying and intermediate priming with Multi Primer LF 3084, diluted 1:1 with water.

Further build-up

Sanding surfaces

For the further build-up with the following systems or coatings, we recommend sanding and vacuuming the filled surfaces beforehand.

With Design Floor 3055 or other floor coverings

The laying of PVC, CV, and textile floor coverings or also the gluing of Design Floor Covering 3055 is made after the filling coat has dried.

In the system with Floortec 2K-Mineralico SL 470

The further system build-up with Floortec 2K-Mineralico SL 470 is made after the filling coat has dried.

In the system build-up with Floortec sealers

If the surfaces are only to be used for foot traffic, the filled floor surfaces can also be sealed with Floortec PU Floor Sealer ELF 847, Floortec 2K-EP Floor Sealer 848 or Floortec 2K-Purolid F 878.

Notes

With wooden floorboards, chipboards, and OSB boards

Wooden floorboards, chipboards, and OSB boards must be screwed tight and/or glued over the entire surface. Wooden floorboards and wooden composite boards are suited only for subsequent floor covering work and not for the system build-up with coating systems.

Protect filling layers

Protect filling layers during the curing time against drafts or direct solar radiation.

Data sheets of the Federal Association of Screeds and Coverings

Comply with the information in the data sheets of the Federal Association of Screeds and Floor Coverings, Troisdorf (BEB), "Evaluating and Preparing Substrates" (2008) and "Preparation for Laying Surface Coverings" (2011).

Follow laying instructions

During use and application, the production information and laying instructions of the floor covering manufacturers should be followed. In particular, the specific substrate requirements and adhesive compatibilities should be taken into consideration.

Hairline cracks and pores

Depending on the substrate and application conditions, hairline cracks and pores cannot be completely ruled out.

Further information

Follow the instructions in the data sheets of the products used.

Remark

This data sheet is based on extensive development work and years of practical experience. The translation corresponds to the current German version, in compliance with the German laws, regulations, standards and guidelines. Its content does not constitute a contractual legal relationship. The user/buyer is not released from the responsibility of checking our products to ensure they are suitable for the intended application. In addition, our general terms of business apply.

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