

# Floor Leveling Compound CA 3059

Fußboden-Nivelliermasse CA 3059

**Calcium sulfate-based, very low-emission, self-leveling,  
high-strength, low-tension,  
for interior use, with Perimeter Insulation Strip SK 3018**

## Properties

High-strength, self-leveling smoothing and leveling compound based on calcium sulfate. Very low-emission, pumpable, and low-tension, and can be applied particularly easily. With extreme hardness and strength. Can also be used on floor surfaces with floor heating and for chair caster loads.

## Field of application

For producing level, interior floor surfaces ready for laying only for subsequent floor covering work with Design Floor 3055, carpeted floors, PVC and CV coverings. Can be used on substrates made of e.g., concrete, cement screed, calcium sulfate-based screed (anhydrite floating screed, gypsum screed) as well as mastic asphalt (interior) IC 10 or IC 15 in accordance with DIN 18354 and DIN 18560, ceramic coverings, and terrazzo.

## Material description

**Color shade:** white  
**Base material:** modified calcium sulfate  
**Bulk density:** approx. 1.02 g/cm<sup>3</sup>  
**Layer thicknesses:** At least 1 mm up to a maximum of 10 mm  
**Packaging:** 25 kg/bag

## Use

**Water addition**  
Approx. 6.0 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 CA 3059 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 curing time of approx. 3 minutes, thoroughly mix the mixed material again and then pour out.

## Application

Pour the Floor Leveling Compound CA 3059 onto the pre-treated substrate and spread it uniformly using the Height-Adjustable Metal Squeegee 1324 or the Notched Blade Spreader Trowel 1294 with inserted Double-edge notched blades 1326, notch size TKB R3 (approx. 2 mm layer thickness) or notch size TKB R2 (approx. 3 mm layer thickness). Subsequently re-level using a de-aerating roller. Apply the desired layer thickness preferably 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 CA 3059 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**

The specified maximum layer thickness must not be exceeded, even with a two-layer filling. For chair casters, suitable from > 1.0 mm layer thickness. Apply at least a 2 mm layer thickness under vapor-tight coverings with full-surface adhesion. Apply on mastic asphalt (interior) with a minimum layer thickness of 1 mm to a maximum thickness of 5 mm.

**Compatibility**

Do not mix with other types of materials.

**Consumption (without additives)**

Approx. 1.5 kg/m<sup>2</sup> 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)**

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. 2 hours.

Ready for laying after approx. 24 hours (up to 3 mm layer thickness; pay attention to residual moisture).

Allow for a longer drying time if the temperature is lower and/or the humidity is higher.

**Storage**

Can be stored in a cool and place for approx. 12 months in the unopened original container. Reseal the opened container tightly and apply as soon as possible.

**Declaration**

**Product code**  
CP1.

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

### 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-swallowable 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. For subsequent laying of floor coverings, cement screeds must exhibit a residual moisture of  $\leq 2.0$  CM-% (with floor heating,  $\leq 1.8$  CM-%), calcium sulfate-bound screeds, a residual moisture of  $\leq 0.5$  CM-% (with floor heating,  $\leq 0.3$  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 <sup>2)</sup>	Pre-filling	Filling <sup>4)</sup>
Concrete, cement screed	Multi Primer LF 3084, 1:3 diluted with water <sup>3)</sup>	Depending on the requirements, Floor Filler 3145	Floor Leveling Compound CA 3059
Calcium sulfate-based screed (anhydrite floating screed, gypsum screed)	Multi Primer LF 3084, 1:1 diluted with water <sup>3)</sup>		
Smooth and impervious concrete surfaces	Special Primer LF 3085, undiluted		
Mastic asphalt (interior)			
Terrazzo and ceramic floor coverings <sup>1)</sup>			

<sup>1)</sup> As substrate only suitable for subsequent floor covering work with Design Floor 3055, carpeted flooring, and PVC and CV coverings.

<sup>2)</sup> Observe the individual drying times of the prime coats.

<sup>3)</sup> Prime twice with Multi Primer LF 3084 in the event of high substrate absorbency.

<sup>4)</sup> 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 additional build-up, 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.

## Notes

### Protect filling layers

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

### Mastic asphalt

Mastic asphalt screeds are always only for interior use and are ready to be coated as of a minimum age of 6 months. These screeds must comply with hardness class IC 10 or IC 15 in accordance with DIN 18354 and DIN 18560, Furthermore, deformation by temperature impacts, e.g., solar radiation, or mechanical stress must be ruled out.

### 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.

## 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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Brillux  
Weseler Straße 401  
48163 Münster  
GERMANY  
Phone +49 251 7188-0  
Fax +49 251 7188-105  
info@brillux.de  
www.brillux.com