



## TECHNICAL DATA SHEET

# F&V PORE FILLER PLUS

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# F&V PORE FILLER PLUS

## PORE FILLER (GROUTING) FOR CEMENTITIOUS SURFACES

### Description

F&V PORE FILLER PLUS is a liquid compound based on various silicates and polymers, which is used together with grinding dust, as a pore filler for grinded concrete floors and screeds to close pores / cavities.

### Properties

F&V PORE FILLER PLUS is mixed on construction site with the grinding dust from the concrete surface. Reason to use the grinding dust is, that the ready to use mixture of the pore filler should reach the same color tone of the floor.

Due to the amount of silicates, the ready to use F&V PORE FILLER PLUS bounds very well the concrete floor and remains still flexible due to special polymers.

Subsequent grinding steps are possible without any breakouts. Processability (pot life and application) of F&V PORE FILLER PLUS is longer and easier than conventional cementbased grouts. In addition, the product contains no volatile organic compounds and is suitable for green buildings certification (DGnB, LEED, BNB, etc.).

**Note:** The mixed F&V PORE FILLER PLUS cures by removing of water. This case occurs much faster on the concrete surface than in the mixing cup.

### Application

F&V PORE FILLER PLUS is used on grinded concrete floors / cement screeds, which occurs pores and small cavities after grinding.

The ready to use product can be used to close pores / cavities with a size up to approx. 5 mm.

If having many and larger pores / cavities, it may be necessary to grout the surface twice.

Fields of application are, for example, industrial floors in commercial companies, market halls, logistics centers, su-permarkets and private residential constructions. The prod-uct is designed for interior use.

### Processing

1. The surface to be treated is grinded with metal-bonded diamond tools up to grit size 60/80 and must be free of oil, grease and other impurities, which can be acting as release agent. Collect grinding dust from the grinding steps 30/40 and/or 60/80.

Grinding dust from first grinding may not be useful due to the risk of contamination and must therefore be discarded!

2. Use dust collector (vacuum cleaner) before application of the grouting, to remove grinding dust from pores.

3. Saturate the concrete floor with water until the surface shows a homogenous moisture, befor applying the grouting to the surface. Avoid puddles with water from wetting, otherwise the readymixed F&V PORE FILLER PLUS will become too thin and too liquid during application. If the area is well premoistened, no additional water is needed during application with F&V POREFILLER PLUS.

4. Stir F&V PORE FILLER PLUS well before use!

5. Mix F&V PORE FILLER PLUS in a mixing cup (e.g., bucket) with the previously collected grinding dust to a creamy consistency (ratio about 1:1). For this purpose, the grinding dust is slowly incorporated into F&V PORE FILLER PLUS with stirring and stopped with the addition of the grinding dust as soon as the creamy consistency is achieved.

6. Spread out the readymixed F&V PORE FILLER PLUS onto the surface, distribute and remove evenly at once surplus material with a pore spatula, without leaving too much excess onto the surface. If the consistence increases significantly during pore filling application and it will be also difficult to remove surplus material with the spatula, use pump sprayer and water to moisten the surface again. Just spray some water before the F&V PORE FILL-ER PLUS until the desired consistency is achieved again.

7. Allow the surface to dry completely (at 20°C approx. 1-2 hours)

8. Grind the floor surface crisscross with a metal-bonded diamond tool grit size 100/120 or other suitable hybrid diamond tools, for example F&V CAE or F&V Ring Tools RBN to remove grouting haze or some excess from F&V PORE FILLER PLUS.

9. Repeat step 2 – 7.

10. After the surface is completely dry again, use F&V DENS PLUS (Densifier) for densification and better bounding of the pore filler into the floor. (For F&V DENS PLUS application read technical data sheet).

11. Allow the surface to dry and cure completely (at 20°C approx. 12 hours).

12. Grind the floor surface crisscross with a resin or hybrid-bonded diamond tool grit size 100 to remove grouting haze or some excess from F&V PORE FILLER PLUS.

13. Following this, the floor surface can be grinded/polished up to the desired grit level. To close smallest micro pores in the concrete floor, it is recommended to spray a mist of F&V DENS PLUS (nozzle 0.2-0.3) in front of the grinder (maximum up to grit size 200).

**Attention!** If quite a few pores / cavities occur or with low requirements to the surface, only one application of F&V PORE FILLER PLUS is sufficient. Therefore, exclude step 8 and 9, but continue grinding after step 11 first with metal-bonded diamond tool (grit size 100/120).

**F&V PORE FILLER PLUS must be processed within 45 minutes after mixing. Material that is older may not be used for processing!**

**Note:** Protect adjoining surfaces against splashes. Clean tools and equipment with water.

### Processing temperature

Avoid direct sun radiation during processing. The surface temperature should be between 10 °C and 30 °C (50 – 86 F). Turn off floor heating system. Avoid direct impact of moisture until the product is completely cured.

### Drying time

The drying time (walkable) is 1-2 hours. According to ambi-ent temperature, humidity and ventilation drying time can be varying. If an additional impregnation (e.g. F&V SEALER PLUS or F&V PREMIUM SEALER) is applied follow technical product data sheets of those products.



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### Productiveness

Depending on pores and cavities in the floor, the coverage of the product varies. As a rough guideline level: 10-15 m<sup>2</sup> per ready mixed F&V PORE FILLER PLUS (1 liter F&V PORE FILLER PLUS + 1 liter grinding dust) with two applications.

### Storage

Shelf-life in cool, dry and closed container is 12 months. Open containers should be worked up as soon as possible.

### Environmental Protection

Not discharged into drains. WGK 1 (low water endangering). Waste codes/waste designations according to EWC/AVV. 06 02 099: Wastes not otherwise specified. Dispose of waste according to applicable legislation. Completely emptied packages can be recycled.

### Safety

F&V PORE FILLER PLUS is harmless to health after curing. A good ventilation should be provided during and after the processing. Wear protective gloves during the application. Safety data sheet available on request for professional users.

Labelling according to Regulation (EC) No. 1272/2008 [CLP]: Wear protective gloves/protective clothing/eye protection/face protection.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### Identification marking for transportation:

PU	PU-marking	Transport documents
a	n.a.	n.a.

### Packaging Unit (PU)

a) 9 liter PE bucket

This information should only be a nonbinding advice. The use of the products is based on local circumstances and on the surface itself. If there is no experience, and in cases of doubt, we recommend to try the product on a inconspicuous spot.

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