

# Fontefloor EP 3000

## DESCRIPTION

A two-component, waterborne self-levelling epoxy screed.

## PRODUCT FEATURES AND RECOMMENDED USES

- Fontefloor EP 3000 belongs to emission class M1 for building materials.
- Water vapour permeable
- Low VOC
- Recommended for light and medium mechanical stress in commercial, public and residential premises, basements and premises where floors are in direct contact with the ground.

## TECHNICAL DATA

### Volume solids

approx. 63%

### Specific gravity

1.1 kg/l (mixture)

### Mixing ratio

Fontefloor EP 3000 mixture, by volume:

Base component- 2 parts by volume Fontefloor EP 3000

Hardener - 1 part by volume Fontefloor EP Hardener

Fontefloor EP 3000 mixture, by weight:

Base component- 2,1 parts by weight Fontefloor EP 3000

Hardener - 1 part by weight Fontefloor EP Hardener

Note! Mixing ratio by weight was calculated base on average density of the components.

Screed:

1 part by volume Fontefloor EP 3000 mixture

0,9-1 part by volume of filler sand e.g grain size 0,05 – 0,2 mm

### Pot life (+23°C)

Approx. 2 hours after mixing.

### Practical coverage

Coverage on concrete floors is on the average:

screed: wet film thickness 2 mm, coverage approx 0.5 m<sup>2</sup> per litre ready for use screed.

Mixing of 6L of Fontefloor EP 3000 with 5,4-6L of filler sand will give approx. 10L of screed.

Mixing of 15L of Fontefloor EP 3000 with 13,5-15L of filler sand will give approx. 25L of screed.

Practical coverage depends on the porosity and evenness of the substrate and on the application method.

### Drying time (+23°C)

Dust dry after 3 hours

Recoatable after 16 hours

Fully cured 7 days

Drying time depends on film thickness, temperature, relative humidity of air and room ventilation.

### Thinners

Water

### Finish

Matt.

### Colors

RAL, NCS, SSG, BS and SYMPHONY colour cards. AVATINT tinting system

### VOC

VOC 2004/42/EC (cat A/j) 140 g/l (2010) Fontefloor EP 3000: max. VOC < 140 g/l



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Can sizes

10,0 L, 20,0 L

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## APPLICATION INSTRUCTIONS

### Surface preparation

#### New concrete

Remove laitance by power grinding, vacuum grit blasting. Choose the method best suited for the premises. After grinding remove dust carefully with a vacuum cleaner.

#### Old concrete

Remove all grease, oil, chemicals and other impurities by MAALIPESU detergent.

Remove old peeling paint layer by grinding or vacuum grit blasting. Choose the method best suited for the premises. Clean out pot-holes removing all loose friable material.

Open cracks with e.g. an abrasive tool. Remove loose material and dust.

### Application conditions

The relative humidity of the concrete should not exceed 97%.

The temperature of the ambient air, surface or coating should not fall below +15°C during application or drying.

Relative humidity of air should not exceed 80%.

### Mixing components

First stir base and hardener separately. Mix the correct proportions of base and hardener thoroughly (approx. 2 minutes to get homogeneous mixture) by using a low speed industrial hand drill with a paddle. Add filler sand into the Fontefloor EP 3000 mixture while carefully mixing. Insufficient mixing or incorrect mixing ratio will result in uneven drying of the surface, weaken the properties of the coating and risk the success of the application.

### Priming

Prime using Fontefloor EP 100 according to technical data sheet. Pour the mixture onto the floor and apply as much as is needed to impregnate the concrete surface. If necessary, repeat the priming to get a non-porous surface.

### Patching

Patch pot-holes and cracks with a mixture of Temafloor 402M or Fontefloor EP 3000 and dry, clean sand or Temafloor Thickener. Mixing ratio e.g. 1 part by volume of Fontefloor EP 3000 and 1–2 parts by volume of sand of grain size 0.1–0.6 mm. Make sure the patched areas are flat before applying the screed. Sand if needed.

Note! Concrete surface should always be primed before patching.

### Scree

Coating should be done within 16–48 hrs after priming. If the primed surface is not coated within 48 hrs, it should be abraded. Pour the Fontefloor EP 3000 screed onto the floor, spread the screed approximately 2 L/m<sup>2</sup> with serrated or adjustable trowel. Finish with spike roller.

### Topcoating

If top coat is needed, it should be done within 16–48 hrs after coating. If the surface is not top coated within 48 hrs, it should be abraded. Top coating can be done for example with Fontefloor EP 100, Fontefloor PU Matt or Fontedur FL Matt.

### HEALTH AND SAFETY

Containers are provided with safety labels, which should be observed. Further information about hazardous influences and protection are detailed in individual health and safety data sheets.

A health and safety data sheet is available on request from Tikkurila Oyj.

**For industrial and professional use only.**



## Fontefloor EP 3000

The above information is not intended to be exhaustive or complete. The information is based on laboratory tests and practical experience, and it is given to the best of our knowledge. The quality of the product is ensured by our operational system, based on the requirements of ISO 9001 and ISO 14001. As manufacturer we cannot control the conditions under which the product is being used or the many factors that have an effect on the use and application of the product. We disclaim liability for any damages caused by using the product against our instructions or for inappropriate purposes. We reserve the right to change the given information unilaterally without notice.

The product is intended for professional use only and shall only be used by professionals who have sufficient knowledge and expertise on the proper use of the product. The information above is advisory only. To the extent permitted by applicable law, we shall not approve of any liability for the conditions under which the product is being used or for the use or application of the product.

In case you intend to use the product for any other purpose than that recommended in this document without first getting our written confirmation on the suitability for the intended use, such use takes place at your own risk.

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## EN 1504-2

The European harmonized product standard EN 1504-2 defines the requirements for surface protection systems for concrete.

This product is tested and CE-labelled in accordance with the tables 1d and 1f in the appendix ZA.

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|---|----------------------------------|
|  |                                  |
| 0809  |                                  |
| Tikkurila Oyj<br>P.O BOX 53<br>FI-01301 Vantaa                                    |                                  |
| 23  |                                  |
| 0809-CPR-19002420   |                                  |
| TIK-A064-2023   |                                  |
| EN 1504-2   |                                  |
| Product for protection and repair of concrete structures – Coating.               |                                  |
| Permeability to CO <sub>2</sub>   | sD > 50 m                        |
| Impact resistance   | Class I: ≥ 4 Nm                  |
| Capillary absorption and permeability to water                                    | w < 0.1 kg/m <sup>2</sup> · h0,5 |
| Abrasion resistance   | weight loss < 3000 mg            |
| Reaction to fire  | Bfl-s1                           |
| Adhesion strength by pull off test  | ≥ 2.0 N/mm <sup>2</sup>          |
| Permeability to water vapour  | class I, sD < 5 m                |
| Resistance to severe chemical attack  | class II                         |