



# Fontefloor EP 100

## DESCRIPTION

A two-component water-borne epoxy paint for interior applications.

## PRODUCT FEATURES AND RECOMMENDED USES

- For painting of new, old and earlier painted concrete floors.
- Also suitable as a primer for Temafloor and Fontefloor paints and coatings.
- Fontefloor EP 100 belongs to emission class M1 for building materials.
- Fulfils the decontamination test requirements (FRP < 15 000) according to the standard ISO 8690:1988 (STUK-YTO-TR-210).
- Recommended for coating of floors exposed to moderate chemical and mechanical stress in industrial facilities, warehouses, repair shops etc.

## TECHNICAL DATA

### Volume solids

approx. 58%

### Specific gravity

1.3 kg / l (mixed).

### Mixing ratio

Base	3 parts by volume	Fontefloor EP 100
Hardener	1 part by volume	Fontefloor EP Hardener

By weight

Base	3,7 parts by weight	Fontefloor EP 100
Hardener	1 part by weight	Fontefloor EP Hardener

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

### Pot life (+23°C)

Approx. 50min after mixing.

### Practical coverage

Coverage on concrete floors is on the average:

Priming 5–7 m<sup>2</sup>/l

Finishing 7–10 m<sup>2</sup>/l

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

### Drying time (+23°C)

Dust dry after 6 hours

Recoatable after 16 hours

Fully cured after 7 days

Drying and recoating times are related to the film thickness, temperature, the relative humidity of the air and ventilation.

### Thinners

Water

### Cleaning of equipment

Water. Equipment should be cleaned immediately after use before the paint has dried.

### Finish

Gloss.

### Colors

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

### VOC

VOC 2004/42/EC (cat A/j) 140 g/l (2010)

Fontefloor EP 100: max. VOC < 140 g/l

### Can sizes

3,0 L, 10,0 L



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## APPLICATION INSTRUCTIONS

- Surface preparation** Always remove all grease, oil, and other impurities with Maalipesu detergent before grinding. Remove laitance or old peeling paint layers by power grinding. Clean out pot holes removing all loose or brittle material. Open cracks with e.g. an abrasive tool. After mechanical pre-treatment remove all loose material and dust carefully with a vacuum cleaner.
- The substrate must have a tensile strength above 1.5 MPa. For application on cementitious leveling screed: check compatibility with the leveling screed manufacturer.
- Application conditions** The relative humidity of the concrete should not exceed 97%.  
The residual moisture of the substrate must not exceed 4%.  
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%.
- Note! Epoxy products have a natural tendency to chalk, discolor or yellow unevenly due to the effect of UV. This has no effect into the technical properties of the product.
- Mixing components** First stir base and hardener separately. Mix the correct proportions of base and hardener thoroughly (approx. 2 minutes to get homogenous mixture) by using a low speed industrial hand drill with a paddle. 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 thinned 10-30 % with water according to the instructions in the product data sheet. Always add the water needed to a ready mixture and stir thoroughly. Pour the mixture onto the floor, apply with a rubber trowel and level with a roller.
- If necessary, repeat priming to get a non-porous surface. A porous priming coat will result in holes and air bubbles in the finished coating.
- Patching** Patch pot-holes and cracks with Colofill putty or a solvent-free epoxy primer, e.g. Temafloor 400, dry clean sand or Temafloor Thickener. Mixing ratio e.g. 1 part by volume of epoxy mixture and 1–2 parts by volume of sand of grain size 0.1–0.6 mm. Make sure the patched areas are flat before priming. Sand if needed.
- Note! Concrete surface should always be primed before patching.
- Topcoating** Topcoating should be done within 16–48 hrs after priming. If the primed surface is not topcoated within 48 hrs, it should be abraded. Topcoating is done with Fontefloor EP 100 epoxy paint thinned 5-25 % with water. Pour the mixture onto the floor and apply it with a trowel and level with a roller.
- The total dry film thickness of the paint film should be approx. 100µm applied in two layers.  
For maintenance painting apply 1-2 layers of Fontefloor EP 100.
- Note! Add the remaining mixture to the next batch of the product, do not scrape it out of the container onto the floor.



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**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.**

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 1504-2:2004

The European harmonized productstandard EN 1504-2:2004 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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Tikkurila Oyj Kuninkaalantie 1 FI-01300 VANTAA	
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0809-CPD-0773	
TIK-035V-5001	
EN 1504-2:2004	
Product for protection and repair of concrete structures – Coating.	
Permeability to CO2	according to the top coat
Impact resistance	Class I: $\geq 4$ Nm
Capillary absorption and permeability to water	$w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$
Abrasion resistance	$< 3000$ mg
Reaction to fire	B <sub>fl</sub> -s1
Adhesion strength by pull off test	$\geq 2,0 \text{ N/mm}^2$
Release of dangerous substances	NPD
Permeability to water vapour	Class I, $s_D < 5$ m
Resistance to severe chemical attack	Class II