

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 for painting concrete, plaster and gypsum walls.
- 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

Pot life (+23°C)

Approx. 50min after mixing.

Practical coverage

Coverage on concrete floors is on the average:

Priming 5–7 m²/l

Finishing 7–10 m²/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

Recoat 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, SSG, BS, MONICOLOR NOVA 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, milling, or vacuum grit blasting. Choose the method best suited for the premises. 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! There is a natural tendency of this coating to chalk, discolor or yellow unevenly. It is recommended to use polyurethane topcoat when there are high aesthetical requirements on color appearance.

Mixing components

First stir base and hardener separately. Mix the correct proportions of base and hardener thoroughly (approx. 3 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, Fontefloor EP Primer or Temafloor 220W according to the instructions in the product data sheet of the specific product. 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.

For better durability when used in residential garages and when a slip-resistant surface is desired:

Apply Fontefloor EP 100 according to the priming painting instructions.

Before products harden (within 20-50 minutes depending on the room temperature and humidity), scatter quartz sand in dimensions 0.3-0.7 mm over the wet paint in an even and fluid layer. Sand consumption is approximately 0.4-0.9 kg / m² depending on application amount and film thickness.

Any excess quartz sand is brushed and vacuumed up after approx. 24 hours.

Painting proceeds according to the topcoating instructions.

For an even result, apply the topcoat in a uniform layer, saturating the quartz sand giving the surface an even structure.

Patching

Patch pot-holes and cracks with a mixture of unthinned Fontefloor EP Primer and dry, clean sand. Mixing ratio e.g. 1 part by volume of varnish mixture and 1-2 parts by volume of sand of grain size 0.1-0.6 mm. Sand the patched areas before overcoating, if necessary.

Note! Concrete surface should always be primed before patching.



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Topcoating

Overcoating should be done within 16–48 hrs after priming. If the primed surface is not overcoated within 48 hrs, it should be abraded. Thin the paint 5-25% with water depending on the surface finish preference. 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.

Note! Add the remaining mixture to the next batch of the product, do not scrape it out of the container onto the floor.

Walls

For painting of walls thin Fontefloor EP 100 epoxy paint 5–10% with water. Airless spray nozzle tip 0.013"–0.017" and pressure 160–180 bar.

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.

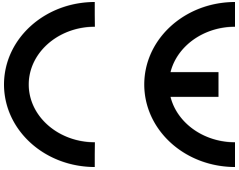
In case you intend to use the product for any other purpose than that recommended in this document without first getting our written confirmation on the suitability for the intended use, such use takes place at your own risk.

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EN 1504-2:2004

The European harmonized product standard 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 CO ₂	according to the top coat
Impact resistance	Class I: ≥ 4 Nm
Capillary absorption and permeability to water	$w < 0,1 \text{ kg/m}^2 \cdot h^{0,5}$
Abrasion resistance	$< 3000 \text{ mg}$
Reaction to fire	B _{ff} -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, $s_D < 5 \text{ m}$
Resistance to severe chemical attack	Class II