

**DESCRIPTION** 

A two-component water-borne epoxy paint.

PRODUCT FEATURES
AND RECOMMENDED
USES

- · For painting of new, old and earlier painted concrete surfaces
- · Also suitable for paiting of concrete 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 / I (mixed).

Mixing ratio Base 3 parts by volume Fontefloor EP 100

Hardener 1 part by volume 008 4571

Pot life (+23°C) Approx. 50min after mixing.

**Practical coverage** Coverage on concrete floors is on the average:

Priming  $5-7 \text{ m}^2/\text{I}$ Finishing  $7-10 \text{ m}^2/\text{I}$ 

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, SSG, BS, MONICOLOR NOVA and SYMPHONY colour cards. AVATINT

tinting system

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



## **APPLICATION INSTRUCTIONS**

#### Surface preparation

New concrete: Remove laitance by power grinding or hydrochloric acid etching. Choose the method best suited for the premises. After grinding remove dust carefully with a vacuum cleaner. Hydrochloric acid etching is carried out with diluted hydrochloric acid (1 part concentrated hydrochloric acid, 4 parts water). Rinse with plenty of water. Dry the floor.

Old concrete: Remove all grease, oil, chemicals and other impurities by Maalipesu detergent. Remove old peeling paint layer by grinding. 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%.

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 25% thinned Fontefloor EP 100, Fontefloor EP Primer or Temafloor 220W. 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 wanted:

Apply Fontefloor EP 100 according to the priming painting instructions.

Before products harden (within 30-50 minutes depending on the room temperature and humidity), scatter quartz sand in dimensions 0.1-0.3 mm over the wet paint in an even and fluid layer. Sand consumption is approximately 0.6-0.9 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 an even layer and smooth it out the so that the quartz sand is saturated.

#### **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.



## **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 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.

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

ieets.

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.



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.

CE	
0809	
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	sp > 50 m
Impact resistance	Class I: ≥ 4 Nm
Capillary absorption and permeability to water	w < 0,1 kg/m² · h0,5
Abrasion resistance	< 3000 mg
Reaction to fire	B <sub>ff</sub> -s1
Adhesion strength by pull off test	≥ 2,0 N/mm²
Release of dangerous substances	NPD
Permeability to water vapour	Class I, s <sub>D</sub> < 5 m
Resistance to severe chemical attack	Class II