



Fontefloor EP 100 Semi-Matt

DESCRIPTION

Semi-matt, two-component water-borne epoxy paint for interior applications.

PRODUCT FEATURES AND RECOMMENDED USES

- For painting of new, old and earlier painted concrete floors and walls.
- Also suitable as a primer for Temafloor and Fontefloor paints and coatings and for painting of concrete, plaster and gypsum walls.
- If used as a floor paint, Fontefloor EP 100 Semi-Matt belongs to emission class M1 for building materials.
- Recommended for coating of floors exposed to moderate chemical and mechanical stress in industrial facilities, warehouses, repair shops etc.

TECHNICAL DATA

Volume solids

approx. 53%

Specific gravity

1.3 kg / l (mixed).

Mixing ratio

Mixing ratio by volume 70:27

Base 2,6 parts by volume Fontefloor EP 100 Semi-Matt

Hardener 1 part by volume Fontefloor EP 100 Semi-Matt Hardener

Pot life (+23°C)

Approx. 3h after mixing.

Practical coverage

Coverage on concrete floors is on the average:

Priming 5–7 m²/l

Finishing 6–8 m²/l

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

Recommended dry film thickness 75 - 100 µm depending on system.

Drying time (+23°C)

Dust dry after 2 hours

Recoat after 4 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.

Cleaning of equipment

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

Finish

Semi-matt.

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 Semi-Matt: max. VOC < 140 g/l

Can sizes

7,2 L, 12,0 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 75%.

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 homogeneous 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 Semi-matt thinned 5 % 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 4–48 hrs after priming. If the primed surface is not topcoated within 48 hrs, it should be abraded. Topcoating is done with Fontefloor EP 100 Semi-Matt epoxy paint thinned 0-5 % with water. Pour the mixture onto the floor and apply it with a trowel and level with a roller.

For maintenance painting apply 1-2 layers of Fontefloor EP 100 Semi-Matt.

Walls

For painting of walls thin Fontefloor EP 100 epoxy paint 0-5 % with water. Airless spray nozzle tip 0.019" and pressure approx. 150 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.



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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 1504-2:2004 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	
1487	
PPG Deco Polska Sp. z o.o. ul. Kwidzyńska 8 51-416 Wrocław, Polska	
25	
1487-CPR-095-05	
DWU-PPGDP-283	
EN 1504-2	
Product for protection and repair of concrete structures – Coating.	
Permeability to CO ₂	s _D > 50 m
Impact resistance	Class I: ≥ 4 Nm
Capillary absorption and permeability to water	w < 0,1 kg/m ² · h _{0,5}
Abrasion resistance	weight loss < 3000 mg
Reaction to fire	Bfl-s1
Adhesion strength by pull off test	≥ 2,0 N/mm ²
Release of dangerous substances	NPD
Permeability to water vapour	Class I, s _D < 5m