

Fontefloor EP Clear

DESCRIPTION

A two-component water-borne epoxy lacquer.

PRODUCT FEATURES AND RECOMMENDED USES

- ◆ For lacquering of new, old and earlier painted concrete surfaces.
- ◆ To be used on top of Fontefloor EP 100 and other Temafloor coatings.
- ◆ Also suitable for lacquering of concrete walls.
- ◆ Recommended for lacquering of floors exposed to moderate chemical and mechanical stress in industrial facilities, warehouses, repair shops etc.

TECHNICAL DATA

Volume solids

approx. 23%.

Specific gravity

1.1 kg / litre (mixed).

Mixing ratio and product codes

Base	3 parts by volume	930 5191
Hardener	1 part by volume	008 4571

Pot life (+23°C)

Approx. 1h after mixing.

Practical coverage

Coverage on concrete floors is on the average:

Priming	5–8 m ² /l
Finishing	6–10 m ² /l

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

Drying times (+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.

Thinner and cleaning of equipment

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

Finish

Glossy.

Colours

Clear.

VOC

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

Fontefloor EP Clear

Surface preparation	<p>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.</p> <p>Old concrete Remove all grease, oil, chemicals and other impurities by MAALIPESU detergent. Remove old peeling paint layer by grinding. Clean out pot-holes removing all loose friable material. Open cracks with e.g. an abrasive tool. Remove loose material and dust.</p>
Application conditions	<p>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 %.</p> <p>Note! There is a natural tendency of epoxy coatings to chalk and discolor on exterior exposure.</p>
Mixing components	<p>First stir base and hardener separately. Mix the correct proportions of base and hardener thoroughly (3–5 minutes) 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.</p>
Priming	<p>Prime with 5–10% thinned Fontefloor EP Clear lacquer. Add always 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.</p>
Patching	<p>Fill holes and cracks with a mixture of unthinned Fontefloor EP Clear and dry, clean sand. Mixing ratio e.g. 1 part by volume of mixture and 1–2 parts by volume of sand of grain size 0.1–0.6 mm. Sand the patched areas before finishing.</p> <p>Note! Concrete surface should always be primed before patching.</p>
Finish	<p>Finishing should be done not earlier than 16 hrs after the priming. If the primed surface is not overcoated within 48 hrs, it should be abraded.</p> <p>Use unthinned Fontefloor EP Clear lacquer for the topcoat. Pour the mixture onto the floor, apply with a rubber trowel and level with a roller. Apply as thin as possible. The total dry film thickness of the film should be approx. 50µm.</p>
Walls	<p>For lacquering of walls thin Fontefloor EP Clear epoxy lacquer 5–10% with water. Airless spray nozzle tip 0.013"–0.017" and pressure 160–180 bar.</p>
HEALTH AND SAFETY	<p>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.</p> <p>A health and safety data sheet is available on request from Tikkurila Oyj.</p>

jni190815tmk240315/930 5191, 008 4571

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.

CE
EN 1504-2

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.

	
0809	
Tikkurila Oyj Kuninkaalantie 1 FI-01301 VANTAA	
14	
0809-CPD-0773	
Declaration of performance: TIK-035V-5001	
EN 1504-2:2004	
Product for protection and repair of concrete structures – Coating	
Abrasion resistance:	< 3000 mg
Permeability to CO ₂ :	CO _{2SD} > 50 m
Permeability to water vapour:	Class I, s _D < 5 m
Capillary absorption and permeability to water:	w < 0,1 kg/m ² · h ^{0,5}
Resistance to severe chemical attack:	Class II
Impact resistance:	Class I: ≥ 4 Nm
Adhesion strength by pull off test:	≥ 2,0 N/mm ²
Reaction to fire:	E _{fl} -s1
Release of dangerous substances:	NPD