

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 dust binding and lacquering of concrete walls.
- The M1 classification for low-emitting building materials has been granted by the Finnish Building Information Foundation RTS.
- 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

Base	3 parts by volume	Fontefloor EP Clear
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 m²/l

Finishing 6–10 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 lacquer has dried.

Finish

Full gloss.

Colors

Clear

VOC

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

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

Can sizes

10,0 L

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APPLICATION INSTRUCTIONS

Surface preparation	<p>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.</p> <p>The substrate must have a tensile strength above 1.5 MPa. For application on cementitious leveling screed: check compatibility with the leveling screed manufacturer.</p>
Application conditions	<p>The relative humidity of the concrete should not exceed 97%. Residual moisture content should be below 4 weight-%. 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>
Mixing components	<p>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.</p>
Priming	<p>Prime using 20–30% thinned Fontefloor EP Clear lacquer. 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.</p> <p>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.</p>
Patching	<p>Patch pot-holes and cracks with a mixture of unthinned Fontefloor EP Clear 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.</p> <p>Note! Concrete surface should always be primed before patching.</p>
Topcoating	<p>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 Fontefloor EP Clear 20–30% with water. Pour the mixture onto the floor and apply it with a trowel and level with a roller. Apply as thin layer as possible.</p> <p>Note! Add the remaining mixture to the next batch of the product, do not scrape it out of the container onto the floor.</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>
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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.

Fontefloor EP Clear

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.

CE	
0809	
Tikkurila Oyj Kuninkaalantie 1 FI-01300 VANTAA	
15	
0809-CPD-0773	
TIK-8400-5016	
EN 1504-2:2004	
Product for protection and repair of concrete structures – Coating.	
Permeability to CO ₂	$s_D > 50 \text{ m}$
Impact resistance	Class I: $\geq 4 \text{ Nm}$
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	$B_{fl} - s1$
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