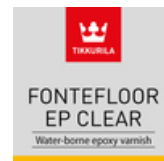




Fontefloor EP Clear - Water-borne epoxy lacquer

DESCRIPTION

A two-component water-borne epoxy lacquer.



PRODUCT FEATURES

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.

Recommended uses

Recommended for lacquering of floors exposed to moderate chemical and mechanical stress in industrial facilities, warehouses, repair shops etc.

TECHNICAL DATA

Features

The M1 classification for low-emitting building materials has been granted by the Finnish Building Information Foundation RTS.

Colour Cards

Clear.

Gloss groups

Gloss

Building material emission class

M1

Coverage

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.

Thinner

Water

Mixing ratio

Base 3 parts by volume 008 4572
Hardener 1 part by volume 008 4571

Application method

Rubber trowel and roller.

Pot-life (+23°C)

Approx. 1 hour after mixing.

Drying time at 23°C and 50% relative air humidity

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.

Solids volume

23 % volume

Density

1.1 kg / litre (mixture)

Product code

Base paint 008 4572 and hardener 008 4571.

APPLICATION DETAILS

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



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drying. Relative humidity of air should not exceed 80 %.

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. Clean out pot-holes removing all loose friable material. Open cracks with e.g. an abrasive tool. Remove loose material and dust.

Priming

Prime with 20–30% 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.

Patching

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.
Note! Concrete surface should always be primed before patching.

Overcoating

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.
Use 20–30% water to thin the 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.

Note! There is a natural tendency of epoxy coatings to chalk and discolor on exterior exposure.

Mixing of components

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.

Cleaning of tools

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

EU VOC 2004/42/EC-limit value

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

HEALTH AND SAFETY LABELLING according to Regulation (EC) No. 1272/2008

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.

Safety data sheet

 [Fontefloor EP Clear](#)

Hardener safety data sheet

 [Fontefloor EP Clear](#)




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CE

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.

 0809	
Tikkurila Oyj Kuninkaalantie 1 FI-01301 VANTAA	
15	
TIK-8400-5016	
0809-CPD-0773	
EN 1504-2:2004	
Product for protection and repair of concrete structures – Coating	
Abrasion resistance	< 3000 mg
Resistance to severe chemical attack	Class II
Permeability to CO ₂	CO ₂ s _D > 50 m
Impact resistance	Class I: ≥ 4 Nm
Release of dangerous substances	NPD
Capillary absorption and permeability to water	$w < 0,1 \text{ kg/m}^2 \cdot h^{0,5}$
Permeability to water vapour	Class I, s _D < 5 m
Adhesion strength by pull off test	≥ 2,0 N/mm ²
Reaction to fire	B _{f1} -s1

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