Fontefloor PU Matt

DESCRIPTION
A two-component water-borne polyurethane paint, which brings coziness for public premises.

PRODUCT FEATURES AND RECOMMENDED USES
• Part of Tikkurila Cozy Floor system
• The M1 classification for low-emitting building materials has been granted by the Finnish Building Information Foundation RTS. M1 classification enhances good indoor air quality. Due to its extremely low VOC content Fontefloor PU Matt ensures healthy environment in hospitals, schools and day care centres
• The wide range of available colours of Fontefloor PU Matt gives almost free hands to the designer. The coating enables unique final appearance of the floor
• Due to high UV-resistance Fontefloor PU Matt remains its color and gloss even in premises with large windows. Matt finish enhances the coziness of the room
• Can be used directly on concrete

TECHNICAL DATA

Volume solids
approx. 59%.

Specific gravity
1.3 kg / l (mixture).

Mixing ratio
Base 10 parts by volume Fontefloor PU Matt
Hardener 1 part by volume Fontefloor PU Matt Hardener

Possible hardeners
Fontefloor PU Matt Hardener

Pot life (+23°C)
2 hours.

Practical coverage
Coverage on concrete floors is on the average:

Priming: 7–12 m2/l
Finishing: 10–20 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 30 min
Recoatable after 4 hours
Light trucking after 24 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.

Colors
RAL, NCS, SSG, BS, MONICOLOR NOVA and SYMPHONY colour cards. AVATINT tinting system.

Thinning instructions
Water.

Reaction to fire
Bfl-s1 according to standard EN 13501-1

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

Can sizes
10,0 L
Fontefloor PU Matt
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 +15ºC during application or drying. Relative humidity of air should not exceed 70%.

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.

Application
Roller

Priming
If the paint is used as a part of Cozy Floor system, follow the priming instructions of Temafloor PU Flex Color. When used directly on concrete prime with 20% thinned Fontefloor PU Matt. Always add the water needed to a ready mixture and stir thoroughly. Pour the mixture onto the floor 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.

Topcoating
Overcoating can be done after 4 hrs after the priming. If the primed surface is not overcoated within 24 hrs, it should be abraded. Thin the paint adding 20% water to a ready mixture. Pour the mixture onto the floor and level with a roller.

Note! Add the remaining mixture to the next batch of the product, do not scrape it out of the container onto the floor.

It is recommended to treat the floor with floor protection agent e.g. 0,5% Kiilto Caretop before taking into use.

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.

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 PU Matt

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.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Permeability to CO₂</td>
<td>≤ 50 m</td>
</tr>
<tr>
<td>Impact resistance</td>
<td>Class I: ≥ 4 Nm</td>
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<tr>
<td>Capillary absorption and permeability to water</td>
<td>≤ 0,1 kg/m² ∙ h⁰.⁶</td>
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<tr>
<td>Abrasion resistance</td>
<td>≤ 3000 mg</td>
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<tr>
<td>Reaction to fire</td>
<td>BrL-s1</td>
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<tr>
<td>Adhesion strength by pull off test</td>
<td>≥ 2,0 N/mm²</td>
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<tr>
<td>Release of dangerous substances</td>
<td>NPD</td>
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<tr>
<td>Permeability to water vapour</td>
<td>Class I, ≤ 5 m</td>
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