

## 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 m<sup>2</sup>/l  
Finishing: 10–20 m<sup>2</sup>/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  
Recoat after 4 hours  
Foot traffic 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

Thin with 0-15% 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

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## APPLICATION INSTRUCTIONS

<b>Surface preparation</b>	<p>New concrete</p> <p>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</p> <p>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.</p>
<b>Application conditions</b>	<p>The relative humidity of the concrete should not exceed 97%. The temperature of the ambient air, surface or coating should be between (TBD 10-25°C) during application or drying. Relative humidity of air should not exceed 70%.</p>
<b>Mixing components</b>	<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 mixer. After mixing both components separately, they should be mixed and then poured into another, clean container, and further mixed to ensure proper mixing. Thinning is performed after mixing the base and hardener. 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>
<b>Application</b>	<p>Nylon or cotton roller. For best results, use a high-quality, short-haired roller with rounded edges.</p>
<b>Priming</b>	<p>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 0-15% thinned Fontefloor PU Matt or Fontefloor EP 100 C bases. Always add the thinning water to the mixture and mix thoroughly. Pour the mixture onto the floor and level with a high-quality 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>
<b>Topcoating</b>	<p>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 0-15% water to a ready mixture. Pour the mixture onto the floor and level with a roller.</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> <p>It is recommended to treat the floor with floor protection agent e.g. 0,5% Kiilto Caretop before taking into use.</p>

<b>HEALTH AND SAFETY</b>	<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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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.

CE	
0809	
Tikkurila Oyj Kuninkaalantie 1 FI-01300 VANTAA	
19	
TIK-A033-2019	
EN 1504-2:2004	
Product for protection and repair of concrete structures – Coating.	
Permeability to CO <sub>2</sub>	$s_D > 50 \text{ m}$
Impact resistance	Class I: $\geq 4 \text{ Nm}$
Capillary absorption and permeability to water	$w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$
Abrasion resistance	$< 3000 \text{ mg}$
Reaction to fire	BfL-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, $s_D < 5 \text{ m}$