# Fontefloor PU Matt

## DESCRIPTION

A two-component, water-borne polyurethane paint that provides good hiding power and gives a matt finish.

## PRODUCT FEATURES AND RECOMMENDED USES

- Part of Tikkurila Cozy Floor system
- Can also be used as a topcoat on Fontefloor EP Primer or Fontefloor EP 100 in premises with moderate mechanical load
- 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

## TECHNICAL DATA

**Volume solids**

approx. 59%.

**Specific gravity**

1.3 kg / l (mixture).

**Mixing ratio**

By volume:
Base 10 parts by volume Fontefloor PU Matt
Hardener 1 part by volume Fontefloor PU Matt Hardener

By weight:
Base 11.9 parts by weight Fontefloor PU Matt
Hardener 1 part by weight Fontefloor PU Matt Hardener

**Possible hardeners**

Fontefloor PU Matt Hardener

**Pot life (+23°C)**

1 hour in can.

**Practical coverage**

Coverage on concrete floors is on the average:

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
Foot traffic after 24 hours
Fully cured after 7 days

Drying and recoating times may vary depending on 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 5-10% 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

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| **Can sizes** | 10,0 L |

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## APPLICATION INSTRUCTIONS

**Surface preparation**

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.
The substrate must have a tensile strength above 1.5 MPa. For application on cementitious leveling screed: check compatibility with the leveling screed manufacturer.

**Application conditions**

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 +15ºC during application or drying. Relative humidity of air should not exceed 80%.

**Mixing components**

Use a low-speed paddle mixer. After mixing both components separately, add hardener (B) to base (A). Mix the correct proportions of base and hardener
thoroughlyfor approx. 3 minutes to acheive a homogenous mixture.
Pour the mixture to another clean container, and resume further mixing 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.

**Application**

Nylon or cotton roller. For best results, use a high-quality, short-haired roller with rounded edges.

**Priming**

If the paint is used as a part of Cozy Floor system, follow the priming instructions of Temafloor PU Flex Color. In other cases follow the priming instructions of the chosen product.

Follow the Thinning instructions available in PDS of your primer product choice after determining the area demands of the finished surface.Apply the mixture onto the floor and level with a high-quality 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**

If the primed surface is not overcoated within 24 hrs, it should be abraded. Thin the paint adding 5-10% water to a ready mixture. Apply the mixture onto the floor and level with a roller.

Add the remaining paint mixture to the next bucket, 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.

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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.

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**EN 1504-2:2004**

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.

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|---|---|
| CE | |
| 0809 | |
| Tikkurila Oyj<br>Kuninkaalantie 1<br>FI-01300 VANTAA | |
| 19 | |
| TIK-A033-2019 | |
| EN 1504-2:2004 | |
| Product for protection and repair of concrete structures – Coating. | |
| Permeability to CO2 | $s_D$ > 50 m |
| Impact resistance | Class I: ≥ 4 Nm |
| Capillary absorption and permeability to water | w < 0,1 kg/m² · $h^{0,5}$ |
| Abrasion resistance | < 3000 mg |
| Reaction to fire | $B_{FL}$-s1 |
| Adhesion strength by pull off test | ≥ 2,0 N/mm² |
| Release of dangerous substances | NPD |
| Permeability to water vapour | Class I, $s_D$ < 5 m |