

**DESCRIPTION** 

A solvent-free, flexible, two-component polyurethane coating used in Tikkurila Cozy Floor System.

PRODUCT FEATURES AND RECOMMENDED USES

- 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 Temafloor PU Flex Color ensures healthy environment in hospitals, schools and day care centers.
- Elongation at break 200%.
- Self-levelling coating is easy and fast to assemble, and easy to renovate when compared to conventional flooring solutions.
- The wide range of available colours gives almost free hands to the designer.
- Water impermeable coating for new and old concrete floors exposed to moderate mechanical stress.

#### **TECHNICAL DATA**

Volume solids 100%.

Specific gravity 1.4 kg / liter (mixture)

Mixing ratio By volume:

Base 3 parts by volume Temafloor PU Flex Color Hardener 1 part by volume Temafloor PU Flex Color Hardener

By weight

Base 3.8 parts by weight Temafloor PU Flex Color Hardener 1 part by weight Temafloor PU Flex Color Hardener

Possible hardeners Temafloor PU Flex Color Hardener

Pot life (+23°C) 15 minutes on substrate, 10 minutes on the mixing container. Pour the whole mixture

onto the floor all at once.

Practical coverage Practical coverage depends on the porosity and evenness of the substrate and on the

application method.

Film thickness 2 mm coverage approx. 2 liters/m2

**Drying time (+23°C)** Dust dry after 2 hours

Overcoatable after 24 hours Fully cured after 7 days

At lower temperatures the curing process will last longer.

Thinners Thinner 1061

Cleaning of equipment Thinner 1061

Colors RAL, NCS, SSG, BS, MONICOLOR NOVA and SYMPHONY color cards. TEMASPEED

tinting.

**Thinning instructions** Do not thin Temafloor PU Flex Color polyurethane coating.

VOC 2004/42/EC (cat A/j) 500 g/l (2010)

Temafloor PU Flex Color max. VOC < 1 g/l

Can sizes 20,0 L



### **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-%. During application or drying, the temperature of the ambient air, surface or coating should not fall below +15°C and 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. 2 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** 

Serrated or adjustable steel trowel.

**Priming** 

Prime using Fontefloor EP 100 thinned with water according instructions in Product Datasheet. Pour the primer onto the floor and apply as much as is needed to impregnate the concrete surface. If necessary, repeat priming to get a non-porous surface. Subsequent treatment can be carried out after 2 hours using "wet-on-wet" technique. A porous priming coat will result in holes and air bubbles in the finished coating.

Scatter sand of grain size Ø0,1–0,6 mm on the fresh primer coat to ensure the screed adhesion.

**Patching** 

Patch pot-holes and cracks with a mixture of unthinned Fontefloor EP Primer 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.

**Topcoating** 

Temafloor PU Flex Color should not be applied on top of the above mentioned primers earlier

than 16-24 hrs.

Non-broadcasted coat: Apply Temafloor PU Flex Color on primer within 16-24 h after installation of the preceding coat. Abrade older than 24 h coat.

If Temafloor PU Flex Color should be applied on a broadcasted primer, abrasion is not needed.

Pour the mixture onto the floor and spread it with a trowel and level with a roller. Control that the layer thickness is correct by observing consumption and by measuring

the film thickness.

Recommended layer thickness is 2.0 mm. Use a spiked roller to

finish the surface approx. 10–20 min after application. Spiked roller helps removing air bubbles from the coating.

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

Pour the mixture onto the floor and apply it with a trowel. Recommended film thickenss is 2 mm.

Temafloor PU Flex Color should always be overcoated with Fontefloor PU Matt or Fontedur FL Matt.



### **Storage**

Hardener should be stored in temperatures at around 20 C. The hardener starts to crystallize when exposed to temperatures below 20 C. Crystallization due to cold is reversible and the hardener can be melted and used without any impaired properties. For more information contact the producer.

### **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.

#### 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.



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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Tikkurila Oyj Kuninkaalantie 1 FI-01300 VANTAA	
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TIK-A020-2018	
EN 1504-2:2004	
Product for protection and repair of concrete structures – Coating.	
Permeability to CO2	sp > 50 m
Impact resistance	Class III: ≥ 20 Nm
Capillary absorption and permeability to water	$w < 0.1 \text{ kg/m}^2 \cdot \text{h}^{0.5}$
Abrasion resistance	< 3000 mg
Reaction to fire	E <sub>f</sub> L-s1*
Adhesion strength by pull off test	≥ 2,0 N/mm²
Release of dangerous substances	NPD
Permeability to water vapour  * For Tikkurila Cozy floor system the reac	Class II: 5 m ≤ sp ≤ 50 m

<sup>\*</sup> For Tikkurila Cozy floor system the reaction to fire class is BfL-s1