Temafloor PU Color

DESCRIPTION
A solvent-free, tintable elastic two-component polyurethane coating.

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 Color ensures healthy environment in hospitals, schools and day care centres.
• Good resistance to abrasion
• Elongation at break approximately 60%
• Good impact resistance
• Self-levelling, to be applied with serrated or adjustable steel trowel
• For new and old concrete and asphalt floors exposed to mechanical and chemical stress in industrial and storage facilities, repair shops, process or paper machine units and corridor

TECHNICAL DATA

Volume solids
Approx. 100%.

Specific gravity
1.4 kg / litre (mixture)

Mixing ratio
Base 2.5 parts by volume Temafloor PU Color
Hardener 1 part by volume Temafloor PU Color Hardener

Possible hardeners
Temafloor PU Color Hardener

Pot life (+23°C)
15–25 minutes on substrate, about 15 minutes in the mixing container.

Practical coverage
Practical coverage depends on the porosity and evenness of the substrate and on the application method.
Film thickness 1 mm coverage approx. 1 m² per litre
Film thickness 2 mm coverage approx. 0.5 m² per litre

Drying time (+23°C)
Dust dry after 6 hours
Light trucking after 24 hours
Fully cured after 7 days

At lower temperatures the curing process will last longer.

Cleaning of equipment
Thinner 1061

Finish
Full gloss.

Colors
NCS S, RAL Classic, RAL Effect, Tikkurila Floor paint, Product belongs to Temaspeed premium tinting system

Thinning instructions
Do not thin Temafloor PU Color polyurethane coating.

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

VOC
VOC 2004/42/EC (cat A/j) 500 g/l (2010)
Temafloor PU olor: max. VOC < 500 g/l

Can sizes
20,0 L
**Temafloor PU Color**

**APPLICATION INSTRUCTIONS**

**Surface preparation**
New concrete: Remove laitance by power grinding, vacuum grit blasting 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 or vacuum grit blasting. 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.

Cementitious levelling screed: check compatibility with the levelling screed manufacturer.

**Application conditions**
The relative humidity of the concrete should not exceed 97%. The residual moisture content of the substrate must not exceed 4%. The temperature of the ambient air, surface or coating should not fall below +15°C during application or drying. Relative humidity of air should not exceed 70%.

**Mixing components**
Mix the correct proportions of base and hardener thoroughly (approx. 2 minutes) by using a plaster mixer. The amount of mixture depends on the area to be coated and on the pot life of the mixture. 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 Temafloor 400 epoxy varnish thinned 30–50% with Thinner 1029 or Fontefloor EP Primer thinned about 40% with water. 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 screed. If needed, scatter sand of grain size Ø 0.1–0.6 mm on the fresh primer coat to ensure the screed adhesion and prohibit gliding of the screed. Remove loose sand with vacuum cleaner before coating with Temafloor PU Color. Asphalt floors should be primed by applying unthinned Temafloor PU Color with a suitable steel or rubber trowel.

**Patching**
Patch pot-holes and cracks with unthinned Temafloor 400 epoxy varnish or Fontefloor EP Primer and dry, clean sand. Mixing ratio e.g. 1 part by volume of epoxy mixture and 1–2 parts by volume of sand of grain size Ø 0.1–0.6 mm. Grind or sand the patched areas before overcoating.

**Topcoating**
Overcoating may be carried out not earlier than 16 hrs and not later than 24 hrs after priming and patching. If the primed surface is not overcoated within 24 hrs, it should be abraded. Pour the coating mixture onto the floor and spread it with a serrated steel trowel or an adjustable trowel. Control that the thickness of layer is correct by observing coating consumption and by measuring the film thickness. Recommended layer thickness is 1.0–2.0 mm. Level the screed with a spiked roller approx. 10–20 min after application. Spiked roller helps removing air bubbles from the coating.

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

**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.
Temafloor PU Color

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.
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, 1f and 1g in the appendix ZA.

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<tr>
<th>Product for protection and repair of concrete structures – Coating.</th>
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<tbody>
<tr>
<td>Permeability to CO2</td>
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<tr>
<td>Impact resistance</td>
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<tr>
<td>Capillary absorption and permeability to water</td>
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<tr>
<td>Abrasion resistance</td>
</tr>
<tr>
<td>Reaction to fire</td>
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<tr>
<td>Adhesion strength by pull off test</td>
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<tr>
<td>Release of dangerous substances</td>
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<tr>
<td>Permeability to water vapour</td>
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<tr>
<td>Resistance to severe chemical attack</td>
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