

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 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

100%.

Specific gravity

1.4 kg / litre (mixture)

Mixing ratio

By volume

Base 2.5 parts by volume Temafloor PU Color

Hardener 1 part by volume Temafloor PU Color Hardener

By weight

Base 3.1 parts by weight Temafloor PU Color

Hardener 1 part by weight 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

Foot traffic 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

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

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 Color contains less 0,4 g/l

Can sizes

20,0 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%. 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 or Fontefloor EP Primer thinned according to instructions in each products PDS. 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

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

If Temafloor PU 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 1.0–2.0 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.



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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.

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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, 1f and 1g in the appendix ZA.

CE	
0809	
Tikkurila Oyj Kuninkaalantie 1 FI-01300 VANTAA	
19	
0809-CPD-0773	
TIK-A038-2019	
EN 1504-2:2004	
Product for protection and repair of concrete structures – Coating.	
Permeability to CO ₂	sd > 50 m
Impact resistance	Class II: ≥ 10 Nm
Capillary absorption and permeability to water	w < 0,1 kg/m ² · h ^{0.5}
Abrasion resistance	< 3000 mg
Reaction to fire	C _F L- s1
Adhesion strength by pull off test	≥ 2,0 N/mm ²
Release of dangerous substances	NPD
Permeability to water vapour	Class II, 5 m < sd < 50 m
Resistance to severe chemical attack	Class II