

Temafloor PU-UV Color

DESCRIPTION

A solvent free, tintable flexible and weather resistant two-component polyurethane coating.

PRODUCT FEATURES AND RECOMMENDED USES

- Excellent resistance to UV.
- Intended to be used as a UV-resistant topcoat on Temafloor PU floors in parking decks and other areas exposed to direct sunlight.
- Withstands mechanical and chemical stress.
- Self-levelling, to be applied with serrated or adjustable steel trowel.
- The M1 classification for low-emitting building materials has been granted by the Finnish Building Information Foundation RTS.
- Silent, does not shrink or crack.

TECHNICAL DATA

Volume solids	Approx. 100%
Specific gravity	1.55 kg / litre (mixture)
Mixing ratio	Base 2 parts by volume Temafloor PU-UV Color Hardener 1 part by volume Temafloor PU-UV Color Hardener
Possible hardeners	PU-UV Color Hardener
Pot life (+23°C)	30 minutes on substrate, about 20 minutes in the mixing container.
Practical coverage	Practical coverage depends on the evenness of the substrate and on the application method. Film thickness 0.3mm coverage approx. 3.3 m ² per litre Film thickness 1.0mm coverage approx. 1 m ² 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. Serrated or steel adjustable trowel.
Thinners	Thinner 1061
Cleaning of equipment	Thinner 1061
Finish	High 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-UV polyurethane coating
Reaction to fire	Bfl-s1 according to standard EN 13501-1
VOC	VOC 2004/42/EC (cat A/j)500 g/l (2010) Temafloor PU-UV: max. VOC < 500 g/l
Can sizes	20,0 L

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APPLICATION INSTRUCTIONS

Surface preparation	<p>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.</p> <p>The substrate must have a tensile strength above 1.5 MPa. For application on cementitious leveling screed: check compatibility with the leveling screed manufacturer.</p>
Application conditions	<p>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%.</p>
Mixing components	<p>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.</p>
Application	<p>Serrated or steel adjustable trowel</p>
Priming	<p>Prime using Temafloor 400, Temafloor Primer, Temafloor 220W or Fontefloor EP 100 thinned according to instructions in the respective 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. Scatter sand of grain size Ø 0,1–0,6 mm on the fresh primer coat to ensure the screed adhesion. Remove loose sand with vacuum cleaner before coating with Temafloor PU-UV Color.</p> <p>Asphalt floors should be primed by applying unthinned Temafloor PU with a suitable steel or rubber trowel.</p>
Patching	<p>Patch pot-holes and cracks with unthinned Temafloor 400 epoxy varnish 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.</p>
Topcoating	<p>Temafloor PU-UV Color should be applied on top of the above mentioned primers or Temafloor PU in 16 - 24 hours. If the primed surface is not overcoated within 24 hrs, it should be abraded.</p> <p>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 thickness of a layer is 0.3–1.0 mm. Level the screed with a spiked roller approx. 10–20 min after application. Spiked roller helps removing air bubbles from the coating.</p> <p>Note! Add the remaining mixture to the next batch of the screed, do not scrape it out of the container onto the floor</p>

HEALTH AND SAFETY	<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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For industrial and professional use only.



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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 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-A037-2019	
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	B _{FL} -s1
Behaviour after artificial weathering	no visual defects
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
Resistance to severe chemical attack	Class II