

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

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| 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) | 15 minutes on substrate, about 10 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. |
| Thinners | Thinner 1061 |
| Cleaning of equipment | Thinner 1061 |
| Finish | High gloss. |
| Colors | RAL, NCS, BS and SYMPHONY colour cards. Temaspeed Premium tinting. |
| Thinning instructions | Do not thin Temafloor PU-UV Color 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 Color: max. VOC < 500 g/l |
| Can sizes | 20,0 L |

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APPLICATION INSTRUCTIONS

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| 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 of the concrete should be below 4 weight-%. 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%.</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 220W or Fontefloor EP 100 thinned according to instruction given in the respective products's 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. A porous priming coat will result in holes and air bubbles in the finished screed.</p> <p>The overcoating time for the chosen primer is specified in its PDS. If the overcoating time has passed, it is necessary to sand the primer coat matte. Alternatively, to extend the overcoating time, it is recommended to scatter sand of grain size Ø 0.1-0.6 mm on the fresh primer coat. The amount of sand used should be 0.5-1.0 kg/m² depending on the thickness of the primer coat. The resulted coat should be coarse, and no loose sand or untreated areas bigger than the size of a thumb are acceptable.</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 earliest after 16 hours. If the primed surface is not topcoated 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> |



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Storage

Protect from frost and direct sunlight. Store and transport in tightly closed containers at temperatures between +10°C and +25°C.

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.

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| 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 | $s_D > 50 \text{ m}$ |
| Impact resistance | Class II: $\geq 10 \text{ Nm}$ |
| Capillary absorption and permeability to water | $w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$ |
| Abrasion resistance | $< 3000 \text{ mg}$ |
| Reaction to fire | B _F L-s1 |
| Behaviour after artificial weathering | no visual defects |
| Adhesion strength by pull off test | $\geq 2,0 \text{ N/mm}^2$ |
| Release of dangerous substances | NPD |
| Permeability to water vapour | Class II, $5 \text{ m} < s_D < 50$ |
| Resistance to severe chemical attack | Class II |