

Temafloor PU Flex

DESCRIPTION

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

PRODUCT FEATURES AND RECOMMENDED USES

- ◆ Elastic and water impermeable coating for new and old concrete floors exposed to moderate mechanical and chemical stress.
- ◆ Typical application e.g. air-conditioning rooms.
- ◆ Elongation at break 180% (7 d)
- ◆ Very good impact resistance.
- ◆ Self-levelling, to be applied with serrated or steel trowel.

TECHNICAL DATA

Volume solids

Approx. 100%.

Specific gravity

1.4 kg / litre (mixture)

Mixing ratio and product codes

Base	4 parts by volume	48V-series
Hardener	1 part by volume	008 4015

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 1 mm coverage approx. 1 liter/m²

Film thickness 2 mm coverage approx. 2 liter/m²

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.

Application

Serrated or steel trowel.

Thinner and cleaning of equipment

Do not thin Temafloor PU Flex polyurethane coating.
Cleaning of equipment with Thinner 1061.

Finish

High gloss.

Colours

RAL 7035.

Reaction to fire

C_{FL}-S1 according to standard EN 13501-1

VOC

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

Temafloor PU Flex: max. VOC < 500 g/l

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Surface preparation	<p>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.</p> <p>Old concrete Remove all grease, oil, chemicals and other impurities by Maalipesu detergent. Remove old peeling paint layer by grinding, milling 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.</p> <p>Cementitious levelling screed <i>If cementitious screed is used, check compatibility with the levelling screed manufacturer.</i></p>
Application conditions	The relative humidity of the concrete should not exceed 97%. 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	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.
Priming	<p>Prime using Temafloor 400, Fontefloor EP Primer, Temafloor Primer or Temafloor 220W epoxy varnish thinned 30–50% with Thinner 1029 or Fontefloor EP Primer epoxy varnish thinned about 20–50% 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 coating.</p> <p>Scatter sand of grain size Ø 0,1–0,6 mm on the fresh primer coat to ensure the screed adhesion.</p>
Patching	Patch pot-holes and cracks with a mixture of unthinned Temafloor 400 or 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.
Coating	<p>Overcoating may be done within 16–24 hrs after priming and patching. If the primed surface is not overcoated within 24 hrs, it should be abraded.</p> <p>Pour the mixture onto the floor and apply it with a trowel and level with a roller. Control that the thickness of layer is correct by observing coating consumption and by measuring the film thickness. Recommended layer thickness is 1–2 mm. Use spiked roller to finish the surface approx. 10 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 coating, do not scrape it out of the container onto the floor.</p>
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.

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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.

**CE
EN 1504-2**

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 and 1f in the appendix ZA.

	
TIK-048V-5001	
Tikkurila Oyj Kuninkaalantie 1 FI-01300 VANTAA	
16	
0809	
EN 1504-2:2004 Product for protection and repair of concrete structures – Coating	
Abrasion resistance:	< 3000 mg
Permeability to CO ₂ :	CO _{2SD} > 50 m
Permeability to water vapour:	Class I, sD < 5 m
Capillary absorption and permeability to water:	w < 0,1 kg/m ² · h ^{0.5}
Impact resistance:	Class III: ≥ 20 Nm
Adhesion strength by pull off test:	≥ 2,0 N/mm ²
Reaction to fire:	C _{fi} -s1
Release of dangerous substances:	NPD