



Temafloor Membrane

DESCRIPTION A solvent free, highly elastic, two-component crack bridging polyurethane membrane.

PRODUCT FEATURES AND RECOMMENDED USES

- Highly elastic and crack bridging membrane.
- Water impermeable coating for new and old concrete substrates.
- Crack bridging A3 (-20 °C) EN 1062-7:2005.
- Crack bridging > 0.5 mm
- Self-levelling, to be applied with serrated or adjustable steel trowel.
- Low VOC
- Low shrinking
- Self-levelling, to be applied with serrated or adjustable steel trowel.

TECHNICAL DATA

Volume solids Approx. 100%

Specific gravity 1.4 kg / l (mixture)

Mixing ratio Base: 4 parts by volume Temafloor Membrane
Hardener: 1 part by volume Temafloor Membrane Hardener

By weight:

Base 4,7 parts by weight Temafloor Membrane
Hardener 1 part by weight Temafloor Membrane Hardener

Note! Mixing ratio by weight was calculated base on average density of the components.

Possible hardeners Temafloor Membrane Hardener

Pot life (+23°C) 50 minutes on substrate, 25 minutes on the mixing container. Pour the whole mixture onto the floor all at once.

Practical coverage Practical coverage depends on the 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 8 hours
Foot traffic after 24 hours
Fully cured after 7 days

At lower temperature the curing process will last longer.

Thinners Thinner 1061

Cleaning of equipment Thinner 1061

Colors TVT 0332

Thinning instructions Do not thin Temafloor Membrane.

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



Temafloor Membrane

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

Can sizes 20,0 L

Temafloor Membrane

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%.
Residual moisture content 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 80%.
- 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 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. If used as a broadcast system, add the quartz sand of grain size Ø 0.1–0.3 mm in to the mixture and mix until a homogeneous mixture has been achieved
- Application** Serrated or adjustable steel trowel. Maximum film thickness is 2 mm.
- Priming** Prime using Temafloor 400, Fontefloor EP Primer, Temafloor Primer or Temafloor 220W epoxy varnish or Fontefloor EP Primer epoxy varnish thinned according to instructions in the respective 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 coating.

Scatter sand of grain size Ø 0.1–0.6 mm on the fresh primer coat to ensure the screed adhesion.
- 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 Ø 0.1–0.6 mm. Sand the patched areas before overcoating, if necessary.
- Topcoating** Apply Temafloor Membrane within 16–24 hours after priming and patching. If the primed surface is not overcoated within 24 hrs, it should be abraded.

Pour the Temafloor Membrane mixture onto the floor and apply with a trowel. Recommended layer thickness is 1–2 mm. When used as a broadcasted system, scatter sand of grain size Ø 0.3–0.8 mm on fresh coating. Temafloor Membrane should be overcoated with a product in the Temafloor PU-family within 16-24 hours.

Note! add the remaining mixture to the next batch of the coating, do not scrape it out of the container on to the floor.



Temafloor Membrane

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.

Temafloor Membrane

EN 1504-2

The European harmonized productstandard EN 1504-2:2004 defines the requirements for surface protection systems for concrete.

This product is tested and CE-labelled in accordance with the table 1d and 1e in the appendix ZA.

	
0809	
Tikkurila Oyj Kuninkaalantie 1 FI-01300 VANTAA	
19	
0809-CPR-19002420	
TIK-A036-2019	
EN 1504-2	
Product for protection and repair of concrete structures – Coating.	
Crack bridging ability	A3 (-20°C)
Permeability to CO2	sd > 50 m
Reaction to fire	CFL-s1
Adhesion strength by pull off test	≥ 2,0 N/mm ²
Release of dangerous substances	NPD
Permeability to water vapour	Class II, 5m < sd < 50 m