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 m
- Self-levelling, to be applied with serrated or adjustable steel trowel
- Low VO
- Low shrinkin
- 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
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 eveness 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.
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
VOC	VOC 2004/42/EC (cat A/j) 500 g/l (2010) Temafloor Membrane: max. VOC < 500 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%. Residual moisture content should be below 4 weight-%. The temperature of the
ambient air, surface or coating should not fall below +15ºC 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 thinned accordning 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.

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.

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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.

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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.

CE	
0809	
Tikkurila Oyj Kuninkaalantie 1 FI-01300 VANTAA	
19	
0809-CPD-0773	
TIK-A036-2019	
EN 1504-2	
Product for protection and repair of concrete structures – Coating.	
Crack bridging ability	A3 (-20°C)
Permeability to CO2	s_D > 50 m
Reaction to fire	C_{FL}-s1
Adhesion strength by pull off test	≥ 2,0 N/mm²
Release of dangerous substances	NPD
Permeability to water vapour	Class II, 5m < s_D < 50 m