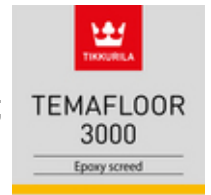


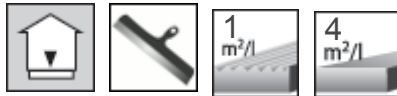
Temafloor 3000

DESCRIPTION	A solvent-free epoxy-resin screed. The screed is prepared by adding sand to Temafloor P300 epoxy coating mixture.
PRODUCT FEATURES	For new and old concrete floors exposed to heavy mechanical and chemical stress in industrial facilities, warehouses and repair shops; e.g. process or paper machine units, corridors and other floors subjected to high point loadings.
RECOMMENDED USES	-



 [zoom](#)

TECHNICAL DATA



Features

Excellent resistance to abrasion. Withstands water, oils, greases, chemicals and diluted solutions of non-oxidizing acids, alkali and salt solutions. Resists only temporary splashes of oxidizing acids and bleaching chemicals. Separate chemical resistance table available. Withstands +70°C dry heat and +60°C in immersion. Does not resist abrupt, great or repeated changes of temperature. Self-levelling. Can be used for floors with a max. slope of 5%. Temafloor Flex hardener makes the paint surface flexible and thus more resistant to cracking of concrete and improves the impact resistance. Reaction to fire: BFL-s1 according to EN 13501-1.

Coverage

For a flat substrate:

1 mm layer:	1 litre ready for use screed / m ²
2 mm layer:	2 litres ready for use screed / m ²
4 mm layer:	4 litres ready for use screed / m ²

Practical coverage depends on the evenness of the substrate.

Temafloor P 300 mixture:

Base 4 parts by volume 167 serie

Hardener 1 part by volume 008 4514

Temafloor P 300 Flex mixture:

Base 2 parts by volume 167 serie

Flex Hardener 1 part by volume 930 5002

Mixing ratio

Screed film thickness 1.5 - 3.0 mm

1 part by vol. Temafloor P 300 mixture

1 part by vol. sand grain size Ø 0.1 - 0.6 mm

Screed film thickness 3.0 - 4.0 mm

1 part by vol. Temafloor P 300 mixture

1 part by vol. sand grain size Ø 0.1 - 0.6 mm

½ part by vol. sand grain size Ø 1.0 - 2.0 mm



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25 litres of Temafloor P 300 filled with sand using the above mixing ratios give approx. 36 and 44 litres of Temafloor 3000 epoxy screed ready for use. Reduce the amount of sand, if the temperature of screed, sand and ambient air is below +20°C.

Application method Adjustable or steel trowel or spiked roller.

Pot-life (+23°C) 20-30 minutes on substrate, approx. 15 minutes in the mixing container.
Dust dry after 6 hours

Drying time at 23°C and 50% relative air humidity Light trucking after 24 hours

Fully cured after 7 days

At lower temperature the curing process will last longer. With Temafloor Flex hardener the curing times are a little longer than with standard hardener.

Solids volume Approx. 100 volume %

Density 1.8 - 2.0 kg / litre (mixture), depending on the grain size and amount of sand.

Product code 167 series

APPLICATION DETAILS

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 80%.

Note! There is a natural tendency of epoxy coatings to chalk and discolor on exterior exposure.

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.

Preparation

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.

Priming

Cementitious levelling screed

Check compatibility with the levelling screed manufacturer.

Prime using 30-50% with Thinner 1029 (or 1031) thinned Temafloor 200 Primer or 400 epoxy varnish. Pour the varnish onto the floor and apply as much as is

Temafloor 3000

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.

Patching

Patch pot-holes and cracks with a mixture of unthinned Temafloor 200 Primer epoxy varnish or Temafloor P 300 epoxy coating 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 0.1-0.6 mm.

Diluting

Do not thin Temafloor 3000 epoxy screed.

Screeding

The screed may be applied not earlier than 6h (+23°C) and not later than 24 h after priming and patching. If the primed surface is not overcoated within 24 hrs, it should be abraded. Pour the screed mixture onto the floor and spread it with an adjustable or a serrated trowel. When using a flat-bladed steel trowel, control that the thickness of layer is correct by observing screed consumption and by measuring the film thickness. Level the screed with a spiked roller approx. 10-15 min after application. Spiked roller helps removing air bubbles from the coating. Note! Add the remaining mixture to the next batch of the screed, do not scrape it out of the container onto the floor.

Joint sealing

When you apply screed on large areas, place working joints in line with pillars, expansion joints, gullies etc. Make working joints and trimmings by using a wide masking tape. Apply the screed on the masking tape and remove after levelling with a spiked roller. When continuing application mask the edge of the already hardened layer of screed and remove the tape after application and levelling with a spiked roller.

Mixing of components

Mix the correct proportions of base and hardener thoroughly (approx. 2 minutes) by using a hand drill with a paddle. Add filler to the mixture mixing carefully at the same time. Use dry, clean natural or quartz sand as a filler. Wet sand will result in air bubbles and decreased gloss in the finished screed. The amount of mixture depends on the area to be coated and on the pot life of the mixture. Insufficient mixing or incorrect mixing ratio will result in uneven drying of the surface, weaken the properties of the screed and risk the success of the application.

Cleaning of tools

Thinner 006 1029 or Thinner 006 1031.

EU VOC 2004/42/

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


EC-limit value

Temafloor 3000: max. VOC < 500 g/l

HEALTH AND SAFETY LABELLING

according to

Regulation (EC) No. 1272/2008

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.  [Safety data sheet](#)

DECLARATION OF PERFORMANCE

[Declaration of Performance EN13813](#) [Declaration of Performance EN1504-2](#)

Temafloor 3000

ENVIRONMENTAL
and WASTE -
DISPOSAL
TRANSPORT -
-

CE

The European harmonized productstandard EN 13813 defines the requirements for Screed materials and floor screeds, including synthetic resin screeds.

This product is tested and CE-labelled in accordance with the tables ZA.1.5 and ZA.3.3 in the appendix ZA.3.

CE	
Tikkurila Oyj Kuninkaalantie 1 FI-01301 VANTAA	
11	
TIK 8400-5011b	
EN 13813	
Coating/Screed	
Abrasion resistance	RWA 1
Chemical resistance	CR 1, 2, 4, 5, 6, 6b, 7, 8, 11, 12, 14 (Class 2)
Release of corrosive substances	SR
Impact resistance	IR4
Sound insulation	NPD
Sound absorption	NPD
Thermal resistance	NPD
Reaction to fire	B _{fl}
Water permeability	NPD



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Adhesion strength by pull off test	Adhesion strength by pull off test: B 2.0
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Temafloor 3000

CE

The European harmonized productstandard EN 1504-2 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.

 0809	
Tikkurila Oyj Kuninkaalantie 1 FI-01301 VANTAA	
13	
TIK 8400-5011a	
EN 1504-2	
Coating	
Abrasion resistance	
Resistance to severe chemical attack	Class II
Permeability to CO ₂	CO ₂ s _D > 50 m
Impact resistance	Class I: ≥ 4 Nm
Permeability to water vapour	Class II, 5 m < s _D < 50 m
Capillary absorption and permeability to water	w < 0,1 kg/m ² · h _{0,5}
Adhesion strength by pull off test	
Reaction to fire	

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.



Temafloor 3000

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.