

DESCRIPTION	A two-component, solvent-free epoxy coating. M1 certified.		
PRODUCT FEATURES AND RECOMMENDED USES	 The M1 classification for low-emitting building materials has been granted by the Finnish Building Information Foundation RTS Good resistance to abrasion Withstands water, oils, greases, chemicals and dilute solutions of non-oxidizing acids, alkali and salt solutions. Resists only temporary splashes of oxidizing acids and bleaching chemicals. A 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 coating For new and old concrete floors in car parks, garages, business premises, shopping centres, restaurants and cafe's Also suitable for floorings exposed to heavy mechanical and chemical stress in industrial and storage facilities, repair shops; e.g. process or paper machine units and corridors 		
TECHNICAL DATA			
Volume solids	approx. 100%		
Specific gravity	1.4 kg / I (mixture).		
Mixing ratio	Base3 parts by volumeTemafloor 500MHardener1 part by volumeTemafloor 500M Hardener		
Pot life (+23°C)	20-30 minutes on substrate, approx. 15 minutes in the mixing container.		
Practical coverage	Coverage on concrete floors is on the average: film thickness 0.3 mm coverage approx. 3 m ² /litre film thickness 0.5 mm coverage approx. 2 m ² /litre Practical coverage depends on the porosity and evenness of the substrate and on the application method		
Drying time (+23°C)	Dust dry after 6 hours Light trucking after 24 hours Fully cured after 7 days At lower temperature the curing process will last longer.		
Cleaning of equipment	Thinner 1029 or 1031.		
Finish	Full gloss.		
Colors	RAL, NCS, SSG, BS, MONICOLOR NOVA and SYMPHONY colour cards. Temaspeed Premium tinting.		
Thinning instructions	Do not thin Temafloor 500M epoxy coating.		
Reaction to fire	B _{FL} -s1 according to standard EN 13501-1.		
VOC	VOC 2004/42/EC (cat A/j) 500 g/l (2010) Temafloor 500M: max. VOC < 500 g/l		
Can sizes	20,0 L		



APPLICATION INSTRUCTIONS

Surface preparation	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.
	Old concrete: Remove all grease, oil, chemicals and other impurities by Maalipesu detergent. Remove old peeling paint layer by grinding 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.
	Cementitious levelling screed: check compatibility with the levelling screed manufacturer.
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.
Mixing components	Mix the correct proportions of base and hardener thoroughly (approx. 2 minutes) by using a low speed hand drill with a paddle. 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 coating and risk the success of the application.
Priming	Prime using 30–50% with water thinned Fontefloor EP Primer or 30-50 % with Thinner 1029 (or 1031) thinned Temafloor 200 Primer or Temafloor 400 epoxy varnish. Pour the mixture onto the floor, apply with a rubber trowel and level with a roller. If necessary, repeat priming to get a non-porous surface. A porous priming coat will result in holes and air bubbles in the finished coating.
Patching	Patch pot-holes and cracks with Colofill putty or a mixture of unthinned Fontefloor EP Primer or Temafloor 200 Primer epoxy varnish or Temafloor 500M 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. Grind the patched areas before overcoating.
Topcoating	Overcoating may be carried out with unthinned Temafloor 500M not earlier than 12 hrs and not later than 24 hrs after priming and patching. If the primed surface is not overcoated within 24 hrs, it should be abraded. Pour the coating mixture onto the floor and spread it with a serrated steel trowel. Finalize with spike roller after ~ 30 min. Recommended film thickness is 0.3–0.5 mm.
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.

Tikkurila Oyj | P.O. Box 53, Heidehofintie 2 | FI-01301 Vantaa Finland | Tel. +358 20 191 2000 www.tikkurila.com



EN 13813

The European harmonized productstandard EN 13813:2002 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				
0809				
Tikkurila Oyj Kuninkaalantie 1 FI-01300 VANTAA				
11				
TIK-A019-2018				
EN 13813				
Synthetic resin screed.				
Impact resistance	IR4			
Capillary absorption and permeability to water	w < 0,1 kg/m² · h0,5			
Chemical resistance	CR 1,2,4,5,8,10,11,12,14 (class 2)			
Release of corrosive substances	NPD			
Abrasion resistance	NPD			
Reaction to fire	B _{FL} -s1			
Adhesion strength by pull off test	B 2.0			
Release of dangerous substances	NPD			
Sound absorption	NPD			
Sound insulation	NPD			



EN 1504-2:2004

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 tables 1d, 1f and 1g in the appendix ZA.

0809			
Tikkurila Oyj Kuninkaalantie 1 FI-01300 VANTAA			
13			
0809-CPD-0773			
TIK-A018-2018			
EN 1504-2:2004			
Product for protection and repair of concrete structures – Coating.			
Permeability to CO2	sd > 50 m		
Impact resistance	Class I: ≥ 4 Nm		
Capillary absorption and permeability to water	w < 0,1 kg/m² · h ^{0,5}		
Abrasion resistance	< 3000 mg		
Reaction to fire	B _{FL} -s1		
Adhesion strength by pull off test	≥ 2,0 N/mm²		
Release of dangerous substances	NPD		
Permeability to water vapour	Class II, 5 m < s _D < 50 m		
Resistance to severe chemical attack	Class II		