

## Temafloor 401

<b>DESCRIPTION</b>	A two component solvent free epoxy varnish.
<b>PRODUCT FEATURES</b>	A low viscosity varnish used as a binder for Temafloor 4000 grinding screed.
<b>Recommended uses</b>	Concrete floors.

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### TECHNICAL DATA

Features	Fire classification according to standard EN 13501-1 is BFL-s1.
Colour Range	Sunlight will affect on the shade and the gloss of the varnish in the long run.
Gloss groups	Full-gloss
Coverage	For a flat substrate:  1 mm layer: 1 litre ready for use screed / m <sup>2</sup>  5 mm layer: 5 litres ready for use screed / m <sup>2</sup>  Practical coverage depends on the evenness of the substrate.
Mixing ratio	Temafloor 401 mixture Base 2 parts by volume 008 4002 Hardener 1 part by volume 008 4012  Screed film thickness 2 - 10 mm  1 part by volume TEMAFLOOR 401 mixture 6 - 8 parts by volume of filler sand, e.g. grain size of 1.0 - 1.8 mm  Note! The amount of the filler and the grain size depends on the object.
Application method	Pour the varnish mixture onto the floor, spread with a rubber trowel and level with a roller.
Pot-life (+23°C)	20 - 30 minutes on substrate, 10 - 15 minutes in the mixing container.
Drying time at 23°C and 50% relative air humidity	Dust dry after 6 hours  Light trucking after 24 hours  Recoatable after 16 - 24 hours  Fully cured 7 days
Solids volume	approx. 100 volume %
Density	1.1 kg / litre (mixture)
Product code	008 4002

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## Temafloor 401

### 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 +1°C during application or drying. Relative humidity of air should not exceed 80%.
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.
Priming	Prime using about 30% thinned Temafloor 400 epoxy varnish. Pour the varnish onto the floor and apply as much as is needed to impregnate the concrete surface. If necessary, repeat the priming to get a non-porous surface. Subsequent treatment can be carried out after 2 hours using "wet-on-wet" technique. Scatter sand of grain size 0.5 - 1.2 mm on the fresh primer coat to ensure the screed adhesion and prohibit gliding of the screed.
Patching	Patch pot-holes and cracks with a mixture of unthinned Temafloor 400 epoxy varnish 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 0.5 - 1.2 mm.
Overcoating	Overcoating should be done within 16 - 24 hrs after priming. If the primed surface is not overcoated within 24 hrs, it should be abraded. Use unthinned Temafloor 400 varnish for the topcoat. Pour the varnish mixture onto the floor, spread with a rubber trowel and level with a roller.
Mixing of 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.
Cleaning of tools	Thinner 006 1029.
EU VOC 2004/42/ EC-limit value	VOC 2004/42/EC (cat A/j) 500 g/l (2010) Temafloor 401: 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	<a href="#">TEMAFLOOR 401 epoxy varnish and 4000 ESD epoxy screed [GB-ENG]</a>
Thinner safety data sheet	<a href="#">THINNER 006 1029 [GB-ENG]</a>
Hardener safety data sheet	<a href="#">TEMAFLOOR 401 HARDENER [GB-ENG]</a>


### DECLARATION OF PERFORMANCE

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

CE

The European harmonized product standard 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.

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Tikkurila Oyj Kuninkaalantie 1 FI-01300 VANTAA	
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TIK-8400-5001b	
EN 13813 SR-B2,0-IR 4	
Sealer/Screen	
Abrasion resistance	NPD
Chemical resistance	CR 1, 2, 4, 4a, 6, 6b, 7, 7a, 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 <sub>f1</sub>
Water permeability	NPD
Adhesion strength by pull off test	B 2,0

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### CE

The European harmonized product standard 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.

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Tikkurila Oyj Kuninkaalantie 1 FI-01300 VANTAA	
13	
TIK-8400-5001a	
0809-CPD-0773	
EN 1504-2:2004	
Product for protection and repair of concrete structures – Coating	
Abrasion resistance	
Resistance to severe chemical attack	Class II
Permeability to CO <sub>2</sub>	CO <sub>2SD</sub> > 50 m
Water absorption	w < 0,1 kg/m <sup>2</sup> ·h <sup>0,5</sup>
Impact resistance	Class I: ≥ 4 Nm
Permeability to water vapour	Class I, s <sub>D</sub> < 5 m
Adhesion strength by pull off test	≥ 2,0 N/mm <sup>2</sup>
Reaction to fire	B <sub>f1</sub> -s1

The above information, based on laboratory tests and practical experience, has been proved valid at the date marked on the product data sheet. The quality of the product is ensured by our operational system, based on the requirements of ISO 9001 and ISO 14001. As a manufacturer we cannot be responsible for any damages caused by using the product against our instructions or for inappropriate purposes.

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