

Temafloor AC601 Clear

DESCRIPTION

A two-component, solvent-free acrylic topcoat.

PRODUCT FEATURES AND RECOMMENDED USES

- Used as a topcoat for Temafloor AC501 and Temafloor AC509 acrylic troweling screeds
- Builds up hard and durable surface
- Non-yellowing
- Rapid curing also in low temperatures
- Recommended for the floors of commercial buildings, warehouses, laboratories, and food processing industries

TECHNICAL DATA

Volume solids

approx. 100%

Specific gravity

1.0 kg /l (ready made mixture)

Mixing ratio

Temperature (°C)*	The amount of hardener (percentage of weight of the binder)	Pot life (min)	Drying time (min)
+5	2.0	ab. 13	ab. 35
+10	1.8	ab. 14	ab. 30
+15	1.5	ab. 13	ab. 30
+20	1.0	ab. 12	ab. 30
+25	0.8	ab. 12	ab. 30

* Temperature of the binder, air and the floor.

Possible hardeners

BP-50-FT, Perkadox®CH-50 or PEROXAN BP-Pulver 50 W.

Practical coverage

Coverage is on the average:

Topcoat 1.2–3.3 m²/l

Practical coverage depends on the porosity and evenness of the surface and on the application method.

Cleaning of equipment

Thinner 006 1400

Finish

Semi-matt. Sunlight will affect on the shade and the gloss of the varnish in the long run.

Colors

Clear

Thinning instructions

Do not thin.

VOC

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

Temafloor AC601 Clear: max. VOC < 500 g/l

Can sizes

20,0 L, 200,0 L

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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, 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.

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 +5°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 a 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.

Topcoating

Topcoating can be carried out after the screed has cured. Pour the varnish mixture onto the floor, apply with a rubber trowel and level with a roller.

Observe a right amount of hardener. Using excessive amounts of hardener can cause yellowing and may weaken the properties of the topcoat. Film thickness should be 0,3-0,8 mm. Thicker film causes yellowing of the surface.

Note! Add the remaining mixture to the next batch of the product, do not scrape it out of the container onto the floor.

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 AC601 Clear

EN 13813

The European harmonized product standard 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	
Tikkurila Oyj Kuninkaalantie 1 FI-01300 VANTAA	
13	
TIK-1600-5005b	
EN 13813 SR-B2,0-AR 0,5-IR 4	
Synthetic resin screed.	
Impact resistance	IR4
Capillary absorption and permeability to water	$w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$
Chemical resistance	Class 1
Release of corrosive substances	SR
Abrasion resistance	AR 0,5
Thermal resistance	NPD
Reaction to fire	E _{fl} (NPD)
Adhesion strength by pull off test	B 2,0
Release of dangerous substances	NPD
Sound absorption	NPD
Sound insulation	NPD

Tested as part of a system together with Temafloor AC102 Primer and Temafloor AC501.

Temaflor AC601 Clear

EN 1504-2:2004

The European harmonized product standard 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.

CE	
0809	
Tikkurila Oyj Kuninkaalantie 1 FI-01300 Vantaa	
13	
0809-CPD-0773	
TIK-1600-5005a	
EN 1504-2:2004	
Product for protection and repair of concrete structures – Coating.	
Permeability to CO ₂	$s_D > 50 \text{ m}$
Impact resistance	Class I: $\geq 4 \text{ Nm}$
Capillary absorption and permeability to water	$w < 0,1 \text{ kg/m}^2 \cdot h^{0,5}$
Abrasion resistance	$< 3000 \text{ mg}$
Reaction to fire	E _{fl} -s1 (NPD)
Adhesion strength by pull off test	$\geq 2,0 \text{ N/mm}^2$
Release of dangerous substances	NPD
Permeability to water vapour	Class III, $s_D > 50 \text{ m}$
Resistance to severe chemical attack	Class I

Tested as part of a system together with Temaflor AC102 Primer and Temaflor AC501.