

Temafloor 210 Clear

DESCRIPTION

A two-component solvent-free epoxy varnish.

PRODUCT FEATURES AND RECOMMENDED USES

- Good resistance against abrasion, oils and grease.
- Also for dust binding and priming of new and old concrete floors prior to laying Temafloor epoxy coatings and screeds; especially where solventless and odourless products are needed.
- Can be used as a finishing varnish in the Mosaic flooring system.
- Filled with sand also suitable for patching of concrete floors.
- Used as a binder for Temafloor 4000 Compact troweling screed.
- Suitable also for topcoating of concrete floors indoors.

TECHNICAL DATA

Volume solids approx. 100%

Specific gravity 1.1 kg / litre (mixture).

Mixing ratio Base 2 parts by volume Temafloor 210 Clear
Hardener 1 part by volume 008 4431

Pot life (+23°C) Approx. 30 minutes after mixing, on substrate.

Practical coverage Coverage on concrete floors is on the average:
Primer 5–8 m²/l
Topcoat 6–10 m²/l
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
Recoat after 16–24 hours
Light trucking after 24 hours
Fully cured after 7 days

Thinners Thinner 1029

Cleaning of equipment Thinner 1029.

Finish Full gloss.

Colors Clear

Reaction to fire B_{FL}-s1 according to EN 13501-1

VOC VOC 2004/42/EC (cat A/j) 500 g/l (2010)
Temafloor 210 Clear: max. VOC < 500 g/l

Can sizes 10,0 L, 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 +15°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.
- Priming** Prime using about 30% thinned Temafloor 210 Clear epoxy varnish. Pour the varnish mixture 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. A porous priming coat will result in holes and air bubbles in the finished coating. Subsequent treatment can be carried out after 2 hours using "wet-on-wet" technique.
- Patching** Patch pot-holes and cracks with a mixture of unthinned Temafloor 210 Clear epoxy varnish 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 0.1–0.6 mm. Sand the patched areas before overcoating, if necessary.

Note! Concrete surface should always be primed before patching.
- Topcoating** Overcoating should be done within 16–24 hrs after priming. If the primed surface is not overcoated within 24 hrs, it should be abraded. For finishing Temafloor 210 Clear epoxy varnish may be thinned up to 10%. Pour the mixture onto the floor and apply it with a trowel and level with a roller.

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.

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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 and 1f in the appendix ZA.

CE	
0809	
Tikkurila Oyj Kuninkaalantie 1 FI-01300 VANTAA	
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0809-CPD-0773	
TIK-8400-5007	
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	$w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$
Abrasion resistance	$< 3000 \text{ mg}$
Reaction to fire	B _f -s1
Adhesion strength by pull off test	$\geq 2,0 \text{ N/mm}^2$
Release of dangerous substances	NPD
Permeability to water vapour	Class I, $s_D < 5 \text{ m}$