Temafloor 220W Primer

DESCRIPTION

A two-component solvent-free epoxy varnish.

PRODUCT FEATURES AND RECOMMENDED USES

- For priming of new and old concrete floors prior to applying Temafloor coatings and screeds.
- Good resistance against oil and grease.
- Suitable for priming of damp concrete (relative humidity of the concrete over 97%) surfaces.

TECHNICAL DATA

Volume solids	approx. 100%.
Specific gravity	1.1 kg / litre (mixture).
Mixing ratio	Base 2 parts by volume Temafloor 220W Primer Hardener 1 part by volume Temafloor 220W Primer Hardener
Pot life (+23°C)	Approx. 30 minutes after mixing, on substrate.
Practical coverage	Coverage on concrete floors is on the average 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 Recoatable after 9 hours–3 days Fully cured after 7 days At lower temperature the drying will last longer.
Thinners	Thinner 1029, Thinner 1031
Cleaning of equipment	Thinner 1029, Thinner 1031
Finish	High gloss.
Colors	Yellowish
VOC	VOC 2004/42/EC (cat A/j) 500 g/l (2010) Temafloor 220W Primer: max. VOC < 500 g/l
Can sizes	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 and according to the subsequent coat. 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

Can be applied on damp concrete (relative humidity of the concrete over 97%) surfaces. Residual moisture of the concrete can be over 4 weight-%. The temperature of the ambient air, surface or coating should not fall below +15ºC 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 30–50% thinned Temafloor 220W Primer 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 using "wet-on-wet" technique.

Patching

Patch pot-holes and cracks with a mixture of unthinned Temafloor 220W Primer epoxy varnish and dry, clean sand or Temafloor Thickener. 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. Make sure the patched areas are flat before priming. Sand if needed.

Note! Concrete surface should always be primed before patching.

Topcoating

Topcoating should be done within 9–72 hrs after priming. If the primed surface is not topcoated within 72 hrs, it should be abraded.

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.

Temafloor 220W Primer

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	
Tikkurila Oyj Kuninkaalantie 1 FI-01300 VANTAA	
11	
TIK-8400-5003b	
EN 13813 SR-B2,0	
Synthetic resin screed.	
Impact resistance	according to the top coat
Capillary absorption and permeability to water	according to the top coat
Chemical resistance	according to the top coat
Release of corrosive substances	SR
Abrasion resistance	according to the top coat
Thermal resistance	NPD
Reaction to fire	E_{fl} (NPD) 1)
Adhesion strength by pull off test	B 2,0
Release of dangerous substances	NPD
Sound absorption	NPD
Sound insulation	NPD

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1) In accordance with Comission decision 2010/85/EC

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 and 1f in the appendix ZA as part of coating system.

CE	
0809	
Tikkurila Oyj Kuninkaalantie 1 FI-01300 Vantaa	
13	
0809-CPD-0773	
TIK-8400-5003a	
EN 1504-2:2004	
Product for protection and repair of concrete structures – Coating.	
Permeability to CO2	according to the top coat
Impact resistance	according to the top coat
Capillary absorption and permeability to water	w < 0.1 kg/m² · h0,5
Abrasion resistance	according to the top coat
Reaction to fire	E_{fl} (NPD)
Adhesion on wet concrete	≥ 1,5 N/ mm², no visual defects
Adhesion strength by pull off test	≥ 2,0 N/mm²
Release of dangerous substances	NPD
Permeability to water vapour	class I, sD < 5 m