

# 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 laying 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	008 4370

### Pot life (+23°C)

Approx. 30 minutes after mixing, on substrate.

### Practical coverage

Coverage on concrete floors is on the average 6–10 m<sup>2</sup>/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 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 006 1029 (or Thinner 006 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

# **Temafloor 220W Primer**

## **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 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 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 after about 9 hours 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 220W Primer 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.

- 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 220W Primer

## 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	
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 <sub>fl</sub> (NPD) 1)
Adhesion strength by pull off test	B 2,0
Release of dangerous substances	NPD
Sound absorption	NPD
Sound insulation	NPD

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

# Temafloor 220W Primer

## 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 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 CO <sub>2</sub>	according to the top coat
Impact resistance	according to the top coat
Capillary absorption and permeability to water	$w < 0.1 \text{ kg/m}^2 \cdot h_{0,5}$
Abrasion resistance	according to the top coat
Reaction to fire	E <sub>fl</sub> (NPD)
Adhesion on wet concrete	$\geq 1,5 \text{ N/mm}^2$ , no visual defects
Adhesion strength by pull off test	$\geq 2,0 \text{ N/mm}^2$
Release of dangerous substances	NPD
Permeability to water vapour	class I, sD < 5 m