**Temafloor 210 Clear - Solvent-free epoxy varnish**

**DESCRIPTION**
A two-component solvent-free epoxy varnish.

**PRODUCT FEATURES**
Recommended uses
Concrete floors.

**TECHNICAL DATA**
Features
Good resistance against abrasion, oils and grease.

Gloss groups
Full-gloss

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.

Thinner
1029

Mixing ratio
Base: 2 parts by volume 008 4420
Hardener: 1 part by volume 008 4431

Application method
Pour the varnish mixture onto the floor, spread it with a rubber trowel and level with a roller.

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

Drying time at 23°C and 50% relative air humidity
- Dust dry after: 6 hours
- Recoat after: 16 - 24 hours
- Light trucking after: 24 hours
- Fully cured after: 7 days

Solids volume
approx. 100 % volume

Density
1.1 kg / litre (mixture)

Product code
008 4420

**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 + 15°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.
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Remove old peeling paint layer by grinding or vacuum grit blasting. Clean out pot-holes removing all loose friable material. Open cracks with e.g. an abrasive tool. Remove loose material and dust.

Cementitious levelling screed
Check compatibility with the levelling screed manufacturer.

Priming
Prime using about 30% thinned TEMAFLOOR 210 epoxy varnish. Pour the varnish 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. 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 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. If the topcoat will be applied as a thin layer, grind the patched areas before overcoating.

Overcoating
Overcoating may be carried out 16–24 hrs after priming. If the primed surface is not overcoated within 24 hrs, it should be abraded. For finishing TEMAFLOOR 210 epoxy varnish may be thinned up to 10%. Pour the varnish mixture onto the floor, spread it 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 industrial 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 210: 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
Temafloor 210 Clear

Thinner safety data sheet
Temafloor 210 Clear

Hardener safety data sheet
Temafloor 210 Clear

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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