

TEMAFLOOR P 300

DESCRIPTION

A two component, solvent free epoxy coating.

PRODUCT FEATURES AND RECOMMENDED USES

- ◆ For new and old concrete floors exposed to heavy mechanical and chemical stress in industrial and storage facilities, repair shops; e.g. process or paper machine units and corridors.
- ◆ Good resistance to abrasion.
- ◆ Withstands water, oils, greases, chemicals and dilute solutions of non-oxidizing acids, alkali and salt solutions. Resists only temporary splashes of oxidizing acids and bleaching chemicals. A separate chemical resistance table available.
- ◆ Withstands + 70 °C dry heat and + 60 °C in immersion. Does not resist abrupt, great or repeated changes of temperature.
- ◆ Self-levelling.

TECHNICAL DATA

Volume solids

Approx. 100 %.

Specific gravity

1.4 kg / litre (mixture).

Mixing ratio and product codes

Base	4 parts by volume	167-series
Hardener	1 part by volume	008 4514

Pot life (+ 23 °C)

20 - 30 minutes on substrate, approx. 15 minutes in the mixing container.

Practical coverage

Coverage on concrete floors is on the average:

Film thickness 0.3 mm coverage approx. 3 m²/litre

Film thickness 0.5 mm coverage approx. 2 m²/litre

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

Drying time (+ 23 °C)

Dust dry	6 h
Light trucking	16 h
Fully cured	7 d

At lower temperature the curing process will last longer.

Thinner and cleaning of equipment

Do not thin TEMAFLOR P 300 epoxy coating.
Cleaning of equipment with Thinner 1029 or 1031.

Finish

High gloss.

Colours

TEMAFLOR floor coatings colour card.

VOC

Does not contain Volatile Organic Compounds.

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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 detergent washing. Remove old peeling paint layer by grinding 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 + 15 °C during application or drying. Relative humidity of air should not exceed 80 %.

Mixing components

Mix the correct proportions of base and hardener thoroughly (approx. 2 minutes) by using a low speed 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.

Priming

Prime using 30 - 50 % with Thinner 1031 or 1029 thinned TEMAFLOR 200 or 400 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. Subsequent treatment can be carried out after 2 hours using "wet-on-wet" technique. A porous priming coat will result in holes and air bubbles in the finished screed.

Patching

Patch pot-holes and cracks with COLOFILL putty or a mixture of unthinned TEMAFLOR 200 epoxy varnish or TEMAFLOR P 300 epoxy coating and dry, clean sand. Mixing ratio e.g. 1 part by volume of epoxy mixture and 1 - 2 parts by volume of sand of grain size 0.1 - 0.6 mm. Grind the patched areas before overcoating.

Topcoat

Overcoating may be carried out not earlier than 6 hrs and not later than 24 hrs after priming and patching. If the primed surface is not overcoated within 24 hrs, it should be abraded. Pour the coating mixture onto the floor and spread it with a serrated steel trowel or a trowel. Level with a roller. Recommended film thickness is 0.3 - 0.5 mm.

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 Coatings Oy.

For professional use only.

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