

TEMAFLOOR 3000

DESCRIPTION

A solvent free epoxy resin screed. The screed is prepared by adding sand to TEMAFLOR P 300 epoxy coating.

PRODUCT FEATURES AND RECOMMENDED USES

- ◆ For new and old concrete floors exposed to heavy mechanical and chemical stress in industrial facilities, warehouses and repair shops; e.g. process or paper machine units, corridors and other floors subjected to high point loadings.
- ◆ Excellent resistance to abrasion.
- ◆ Withstands water, oils, greases, chemicals and diluted solutions of non-oxidizing acids, alkali and salt solutions. Resists only temporary splashes of oxidizing acids and bleaching chemicals. 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. Can be used for floors with a max. slope of 5 %.

TECHNICAL DATA

Volume solids

Approx. 100 %.

Specific gravity

1.8 - 2.0 kg / litre (mixture), depending on the grain size and amount of sand.

Mixing ratio and product codes

TEMAFLOR P 300 mixture	Base	4 parts by volume	167-s.
	Hardener	1 part by volume	008 4514

Screed film thickness 1.5 - 3.0 mm	1 part by vol. TEMAFLOR P 300 mixture
	1 part by vol. sand grain size Ø 0.1 - 0.6 mm
Screed film thickness 3.0 - 4.0 mm	1 part by vol. TEMAFLOR P 300 mixture
	1 part by vol. sand grain size Ø 0.1 - 0.6 mm
	½ part by vol. sand grain size Ø 1.0 - 2.0 mm

25 litres of TEMAFLOR P 300 filled with sand using the above mixing ratios give approx. 36 and 44 litres of TEMAFLOR 3000 epoxy screed ready for use. Reduce the amount of sand, if the temperature of screed, sand and ambient air is below 20 °C.

Pot life (+ 23 °C)

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

Practical coverage

For a flat substrate:

Practical coverage depends on the evenness of the substrate.

1 mm layer: 1 litre ready for use screed / m²
2 mm layer: 2 litres ready for use screed / m²
4 mm layer: 4 litres ready for use screed / m²

Drying time (+ 23 °C)

Dust dry	6 h	At lower temperature the curing process will last longer.
Light trucking	24 h	
Fully cured	7 d	

Thinner and cleaning of equipment

Do not thin TEMAFLOR 3000 epoxy screed.
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	<p>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.</p> <p>Old concrete Remove all grease, oil, chemicals and other impurities by detergent washing. Remove old peeling paint layer by grinding, milling 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.</p>
Application	Adjustable or steel trowel or spiked roller.
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 hand drill with a paddle. Add filler to the mixture mixing carefully at the same time. Use dry, clean natural or quartz sand as a filler. 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 screed and risk the success of the application.
Priming	Prime using 30 - 50 % with Thinner 1031 or 1029 thinned TEMAFLOOR 200 or 400 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. A porous priming coat will result in holes and air bubbles in the finished screed.
Patching	Patch pot-holes and cracks with a mixture of unthinned TEMAFLOOR 200 epoxy varnish or TEMAFLOOR 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.
Screed	<p>The screed may be applied not earlier than 6 h (23 °C) and not later than 24 h after priming and patching. If the primed surface is not overcoated within 24 hrs, it should be abraded. Pour the screed mixture onto the floor and spread it with an adjustable or a serrated trowel. When using a flat-bladed steel trowel, control that the thickness of layer is correct by observing screed consumption and by measuring the film thickness. Level the screed with a spiked roller approx. 10 - 15 min after application. Spiked roller helps removing air bubbles from the coating.</p> <p>Note! Add the remaining mixture to the next batch of the screed, do not scrape it out of the container onto the floor.</p>
Working joints, trimmings	When you apply screed on large areas, place working joints in line with pillars, expansion joints, gullies etc. Make working joints and trimmings by using a wide masking tape. Apply the screed on the masking tape and remove after levelling with a spiked roller. When continuing application mask the edge of the already hardened layer of screed and remove the tape after application and levelling with a spiked roller.
HEALTH AND SAFETY	<p>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.</p> <p>A health and safety data sheet is available on request from Tikkurila Coatings Oy.</p> <p>For professional use only.</p>

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