

**TEKNOFLOOR 300F**
Epoxy Varnish

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| VARNISH TYPE | TEKNOFLOOR 300F is a solvent-free, two-pack epoxy varnish for concrete floors. |
| USAGE | TEKNOFLOOR 300F is used for priming under epoxy coatings and flooring compositions and colour sand mortars. When filled with sand, the varnish can be used for repairing of concrete floors and rounding off the corners. It is also suitable for finishing if a thick varnish coat is required. |
| SPECIAL PROPERTIES | TEKNOFLOOR 300F is resistant to abrasion and chemicals. Diluted varnish penetrates into the pores of the concrete so sealing the surface and ensuring good adhesion to the substrate. NOTE! The colour of the varnish may change on objects exposed to sunlight. |
| APPROVALS | The product has CE approval for protection of concrete structures. Additional information: see page 3: "CE MARKING". TEKNOFLOOR 300F is suitable for use in food preparation and packaging environments (Smithers Rapra, Certificate Number GC0071). |

TECHNICAL DATA

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| Mixing ratio | Base (Comp. A): Hardener (Comp. B): TEKNOFLOOR HARDENER 300H | 2 parts by volume 1 part by volume |
| Pot life, +23 °C | Undiluted mixture: 30 - 40 min (poured out on the floor) 10 min (kept in the vessel) | |
| | Diluted mixture: 40 - 60 min (poured out on the floor) | |
| Solids | 100 % by volume | |
| Total mass of solids | abt. 1100 g/l | |
| Volatile organic compound (VOC) | abt. 0 g/l | |
| Spreading rate | Depending on the roughness and absorbency of the surface. Standard value for a steel-trowelled concrete floor: for priming 3 - 6 m ² /l. | |
| Drying time at +23°C / 50% RH - fit for light traffic | after 16 h | |

The drying time is as previously mentioned when the temperature of the product as well as air and surface is +23°C.

| surface temperature | by itself, TEKNOFLOOR 400F or TEKNOFLOOR 500F | |
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| | min. | max.* |
| +10°C | after 24 h | after 48 h |
| +23°C | after 6 h | after 24 h |

* Maximum overcoating interval without roughening.

Increase in film thickness and rise in the relative humidity of the air in the drying space usually slow down the drying process.

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| Thinner, clean up | TEKNOSOLV 9506 or TEKNOSOLV 9515 |
| Finish | Full gloss |
| SAFETY MARKINGS | See Safety Data Sheet. |

DIRECTION FOR USE**Surface preparation**

NEW CONCRETE FLOOR: The concrete must be at least 4 weeks old and well-hardened so that all moisture from casting is bound and the surface dry. The moisture of the concrete must not exceed 97% as relative humidity or 4% by weight (by 54 / BLY 12).

Dense laitance is to be removed from steel-trowelled concrete by shot-blasting or surface grinding. Brittle and powdery top layers are treated so that the solid concrete containing aggregate is exposed. Thereafter all cement dust is removed by vacuum cleaner or brush. The concrete surface must be clean of anything that might hinder the adhesion.

OLD CONCRETE FLOORS: Uncoated, greasy floors are cleaned by emulsion wash. Thereafter laitance is removed by shot-blasting, scarifying, surface grinding or etching. Scarifying and shot-blasting are the best methods for removal of disrepair concrete or old flaking paint or composition layers.

Choosing the preparation method

The surface preparation method for both new and old concrete is chosen according to condition of the concrete and strain the floor will be exposed to. The best method for floors to be attacked by heavy abrasion, chemicals or hot water is scarifying or shot-blasting. Surface grinding is enough if the floor will be subjected to minor abrasion only. In general, surface preparation by etching is not recommended for composition floors within industry. Etching is mainly used for small areas when mechanical preparation methods are not applicable.

Etching is to be done with RENSA ETCHING etching liquid or with diluted hydrochloric acid (1 part acid to 4 parts water). Rinse the floor with water after etching and allow to dry.

Application conditions

During the varnishing and drying period the temperature of the ambient air, the surface and the varnish shall be above +10 °C and the relative air humidity below 80 %.

Additionally the temperature of the surface to be varnished and the varnish must be at least 3°C above the dew point of the ambient air.

Special jobs

All special jobs should be done before the application of the actual priming. E.g. cutting grooves at joints between steel and concrete. Cutting working and expansion joints open. Fitting up skirting and rounding of corners. Filling cavities and cervices, and possible levelling down the floor.

Filling can be done with TEKNOPOX FILL or with stiff putty prepared by adding an adequate amount of dry sand (e.g. 0.1 - 0.6 mm) to undiluted varnish.

Varnishing

THE PRIMING COAT is applied "wet-to-wet" with varnish diluted 30 - 50% with TEKNOSOLV 9506 (TEKNOPLAST SOLV). The amount of thinner depends on the density of the concrete. Pour the mixture on the floor immediately after mixing. Apply e.g. with a short-piled mohair roller, generously so that the surface is sealed. Recoat immediately all areas that have absorbed the varnish completely. The number of priming coats depend on the quality of the concrete's surface. The priming coating may have to be done several times. If the surface remains porous, air bubbles may form when the coating is applied, and this will cause craters on the surface.

The coating can be applied when the priming coat has dried for at least 6 hours. Avoid intervals longer than 24 hours. If the priming coat has been applied more than 24 h ago the surface must be rubbed down and cleaned before it is overcoated.


ADDITIONAL INFORMATION

The storage stability is shown on the label. Store in a cool place and in tightly closed containers.

Additional instructive information for surface preparation can be found in standards EN ISO 12944-4 and ISO 8501-2.

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CE MARKING

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| 0809 | |
| Teknos Oy Takkatie 3, P.O. Box 107 FI-00371 Helsinki, Finland 13 Declaration of Performance No. 0004 | |
| 0809-CPR-1063 EN 1504-2:2004 Surface protection products – Coating Physical resistance (5.1) Chemical resistance (6.1) | |
| Abrasion resistance | Requirement: Weight loss less than 3000 mg |
| Capillary absorption and permeability to water | Requirement: $w < 0,1 \text{ kg/m}^2 \times \sqrt{h}$ |
| Resistance to severe chemical attack | Requirement: Reduction in hardness of less than 50 % |
| Impact resistance | Class I: $> 4 \text{ Nm}$ |
| Adhesion strength by pull-off test | Requirement: Rigid system with trafficking: $\geq 2,0 (1,5) \text{ N/mm}^2$ |
| Dangerous substances | See safety data sheet |

The information of this data sheet is normative and based on laboratory tests and practical experience. Teknos guarantees that the product quality conforms to our quality system. Teknos accepts, however, no liability for the actual application work, as this is to a great extent dependent on the conditions during handling and application. Teknos accepts no liability for any damage resulting from misapplication of the product. This product is intended for professional use only. This implies that the user possesses sufficient knowledge for using the product correctly with regard to technical and working safety aspects. The latest versions of Teknos data sheets, material safety data sheets and system sheets are on our home pages www.teknos.com.



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