

**TEKNOFLOOR 600F**  
**Polyurethane Coating**

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<b>PAINT TYPE</b>	TEKNOFLOOR 600F is a solvent-free, two-pack polyurethane coating.
<b>USAGE</b>	Used on industrial floors requiring an even, uniform surface that has good resistance against mechanical abrasion.
<b>SPECIAL PROPERTIES</b>	The colour and gloss retention of the coating is very good. The coating withstands water, chemicals, oil, grease and petrol. The abrasion resistance of the coating is very good. The coating is fast drying and the coated surface can be fully taken into use after a drying time of 12 h (+23°C / 50% RH) .
<b>APPROVALS</b>	The product has CE approval for protection of concrete structures. Additional information: see page 3: "CE MARKING".

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**TECHNICAL DATA**

<b>Mixing ratio</b>	Base (Comp. A): Hardener (Comp B): TEKNOFLOOR HARDENER 600H	2.5 parts by volume 1 part by volume
<b>Pot life, +23 °C / 50% RH</b>	15 - 20 min (mixture poured out on the floor) 10 - 15 min (mixture kept in the vessel)	
<b>Solids</b>	100 % by volume	
<b>Total mass of solids</b>	abt. 1400 g/l	
<b>Volatile organic compound (VOC)</b>	abt. 0 g/l	
<b>Recommended film thickness</b>	0,3 - 0,5 mm	
<b>Drying time at +23°C / 50% RH</b> - fit for light traffic - fully cured	after 4 h after 7 days	
	The drying time is as previously mentioned when the temperature of the product as well as air and surface is +23°C.	
<b>Clean up</b>	TEKNOCLEAN 6496	
<b>Finish</b>	Full gloss	
<b>Colours</b>	By agreement.	
<b>SAFETY MARKINGS</b>	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**

The surface to be coated must be dry. During the application and the drying period the temperature of the ambient air and the surface to be coated shall be above -5°C and the temperature of the coating shall be above +15°C during the mixing and coating and the relative air humidity below 80%.

Additionally during the application and the drying period the temperature of the coating and the surface to be coated shall be at least 3°C above of the dew point of the 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.

**Priming varnishing**

The priming is done with TEKNOFLOOR PRIMER 310F Epoxy Varnish. For mohair roller application the varnish is diluted about 30% with TEKNOSOLV 9515 or TEKNOSOLV 9506. Spread the varnish 0.2 - 0.3 l/m<sup>2</sup>. If the concrete floor is very porous, the second coat can be applied with TEKNOFLOOR PRIMER 310F Epoxy Varnish according to the instructions for overcoating time given in the Data Sheet. TEKNOFLOOR PRIMER 306F Epoxy Varnish can be used on fresh, 2 - 3 days old concrete surface according to the instructions given on Data Sheet.

**Application**

Mixing of components: Mix Base and Hardener with each other immediately before use and stir thoroughly. It is recommended to use a slow-rotating drilling machine equipped with a stirrer for mixing. Careless stirring or incorrect mixing ratio will cause an irregular curing and impaired film properties.

Depending on the temperature the coating is done after 4 - 24 h from priming.

The recommended coat thickness is achieved by a suitable indentation of the steel trowel. Smooth down with a short-haired mohair roller.


Wash the equipment immediately after finishing the work with TEKNOCLEAN 6496.

**ADDITIONAL INFORMATION**

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

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## CE MARKING

	
<b>0809</b>	
Teknos Oy Takkatie 3, P.O. Box 107 FI-00371 Helsinki, Finland 15 Declaration of Performance No. 0032	
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 II: $> 10 \text{ Nm}$
Adhesion strength by pull-off test	Requirement: Crack-bridging system with trafficking: $\geq 1,5 (1,0) \text{ N/mm}^2$
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](http://www.teknos.com).



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