

# TEKNOFLOOR 100F

## Concrete paint and varnish

TEKNOFLOOR 100F is a two-pack epoxy paint for concrete floors.

Used for concrete floors whenever an abrasion-resistant paint coat is required. When good colour and gloss retention is required TEKNOFLOOR 100F can be overcoated with TEKNODUR 0100 -series polyurethane top coats.

The product has CE approval for protection of concrete structures.



### TECHNICAL DATA

<b>Certificates, approvals and classification</b>	CE marking
<b>Fields of application</b>	Floors
<b>Recommended substrate</b>	Concrete
<b>Binder</b>	Epoxy
<b>Solids</b>	paint: approx. 48 ±2% by volume varnish: approx. 35 ±2% by volume
<b>Total mass of solids</b>	paint: approx. 700 g/l varnish: approx. 400 g/l
<b>Volatile organic compound (VOC)</b>	paint: approx. 480 g/l varnish: approx. 560 g/l  The VOC value provided is the average value for factory produced products, and consequently it will be subject to variations between individual products covered by this Technical Data Sheet.
<b>Practical spreading rate</b>	Depending on the surface strength of the concrete.  The recommended values for surface-ground hard and vacuum concrete floors: First application with 40 % diluted paint 5 - 7 m <sup>2</sup> /l Second application with undiluted paint 6 - 9 m <sup>2</sup> /l  The recommended values for handmade floors: First application with 30% diluted paint 3 - 5 m <sup>2</sup> /l Second application with undiluted paint 5 - 7 m <sup>2</sup> /l
<b>Colours</b>	Standard colours according to the TEKNOFLOOR Colour Card.
<b>Tinting system</b>	Teknomix
<b>Gloss (60°)</b>	Gloss
<b>Hardener</b>	Comp. B: TEKNOFLOOR HARDENER 100H
<b>Mixing ratio (A:B)</b>	3:1 parts by volume

<b>Pot life, +23°C</b>	6 h
<b>Thinner</b>	TEKNOSOLV 9506
<b>Storage</b>	The storage stability is shown on the label. Store in a cool place and in tightly closed containers.

## DIRECTION FOR USE

<b>Surface preparation</b>	<p><b>NEW CONCRETE SURFACES:</b> 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).</p> <p>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.</p> <p>Surface grinding is good method to remove laitance. It is usually done on new industrial floors as wet grinding in connection with casting. Shot-blasting is another excellent method for removing laitance. Etching is used if grinding or shot-blasting cannot be used. It is mainly recommended for small areas.</p> <p>Etching is to be done with RENSA ETCHING etching liquid. Rinse the floor with water after etching and allow to dry. On the concrete surface must not be anything that will prevent the adhesion.</p> <p><b>OLD CONCRETE SURFACES:</b> Uncoated, greasy floors are cleaned by emulsion wash. Thereafter laitance is removed by surface grinding or etching. Flaking old paint, and laitance can be removed by diamond-wheel abrading, blast-cleaning, shot-blasting or wet grinding.</p> <p>Cervices and cavities are to be repaired before the first application with TEKNOPOX FILL Stopper or with stiff putty prepared by mixing an adequate amount of dry sand (grain size 0.1 - 0.6 mm) with solvent-free TEKNOFLOOR 300F Epoxy varnish.</p>
<b>Application method</b>	Mohair roller

## Application

THE PRIMING COAT is applied "wet-to-wet" with paint diluted 30 - 50% with TEKNOSOLV 9506. Apply the paint generously, so that the surface is sealed. The amount of thinner depends on the density of the concrete. Pour the paint on the floor and apply with short-piled mohair roller. Recoat immediately all areas that have absorbed the paint 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.

THE TOP COAT is applied 6 - 24 hours after the priming with undiluted paint. Apply enough paint to get a uniform, thin paint film. Avoid thick coats forming on the concrete. The application is done as for the priming coat.

It is recommended that paint of the same batch is used for painting large uniform floors and avoid mending by re-rolling already partly dried surfaces. If paint from different batches must be used, the application is to be planned so that the seams between batches are done to natural lines, i.e. sills and expansion joints.

Wear spike-soled shoes when walking on fresh paint surface.

## Application conditions

The surface to be treated must be dry. During the application and drying period the temperature of the ambient air, the surface and the product shall be above +10°C and the relative air humidity below 80%. Additionally, the temperature of the surface to be treated and the product must be at least +3°C above the dew point of the ambient air.

## Drying time

+23°C / 50% RH

### - fit for light traffic

12 h

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

## Overcoatable

surface temperature	By itself	
	min.	max.*
+10°C	24 h	48 h
+23°C	6 h	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.

## Cleaning

TEKNOSOLV 9506

## HEALTH AND SAFETY

### Safety and precaution measures

See safety data sheet.



**0809**

Teknos Oy, Takkatie 3, P.O. Box 107, FI-00371 Helsinki, Finland

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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: $w < 0,1 \text{ kg/m}^2 \times \sqrt{h}$
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

**Teknos Group Oy Takkatie 3, P.O.Box 107 FI-00371 Helsinki, Finland Tel. +358 9 506 091**

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