

TEKNOFLOOR PRIMER 306F-01

Epoxy varnish

TEKNOFLOOR PRIMER 306F-01 is a two-pack epoxy varnish for concrete floors.



TEKNOFLOOR PRIMER 306F-01 Epoxy varnish is used for priming concrete floors when using epoxy coating and compositions. It can also be used for protection against dirt on new concrete floors while installing machinery etc. The actual coating is generally done after installations.

TEKNOFLOOR PRIMER 306F-01 can be used on fresh concrete that is 2 - 3 days old. The varnish is resistant to water, chemicals, oil, grease and gasoline. Abrasion resistance is excellent. TEKNOFLOOR PRIMER 306F-01 can be used instead of materials that prevent water from evaporating from fresh concrete surfaces.

TECHNICAL DATA

Certificates, approvals and classification	CE marking
Recommended substrate	Concrete
Binder	Epoxy
Solids	Approx. 100% by volume
Total mass of solids	Approx. 1100 g/l
Volatile organic compound (VOC)	Approx. 0 g/l (DIRECTIVE 2010/75/EU) 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.
Practical spreading rate	Depending on surface roughness and porosity. The standard rate for a steel-trowelled, blast-cleaned concrete floors is 3 - 6 m ² /l.
Gloss (60°)	Full gloss
Hardener	Comp. B: TEKNOFLOOR PRIMER HARDENER 306H-01
Mixing ratio (A:B)	2:1 parts by volume
Pot life	approx. 30 - 40 min (mixture kept in a vessel)
Thinner	TEKNOSOLV 9506, TEKNOSOLV 9515.
Storage	The storage stability is shown on the label. Must be stored tightly closed and kept cool.

DIRECTION FOR USE

Surface preparation

New concrete floors must be clean and free from laitance before varnishing. The best method for removing laitance from steel-trowelled concrete is scarifying, shot-blasting or surface grinding. The surface grinding is usually done on new floors as wet grinding while doing the casting. All residues of grinding must be carefully removed. The concrete surface must be clean of anything that might hinder the adhesion.

Priming

The priming is done "wet-on-wet" with varnish that is diluted by 20 - 30% with TEKNOSOLV 9506 or TEKNOSOLV 9515. TEKNOSOLV 9515 has a milder odour and therefore can be used in spaces where strong smells are to be avoided. The amount of thinner depends on the density of the concrete. Immediately after mixing pour the mixture as a streak onto the floor and apply e.g. with a short-piled roller. Use lashings of varnish so that the entire surface is coated with a thin film therefore sealing the surface. 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 may have to be done several times. If the surface is left porous, when coating is applied air bubbles may rise up and leave holes on the surface. There must not be any water on the floor during the application.

Application method

Roller

Application

The coating can be applied when the priming coat has dried for at least 8 h (+23°C). 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.

The varnished floor is usually coated after the machinery has been installed. Then remove the grease and dirt e.g. by emulsion wash and the surface is roughened by rubbing down or shot-blasting.

Application conditions

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

16 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, with TEKNOFLOOR 400F, TEKNOFLOOR 500F or TEKNOFLOOR 660F	
	min.	max.*
+10 °C	36 h	60 h
+23 °C	8 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 or TEKNOOLV 9515.

HEALTH AND SAFETY**Safety and precaution measures**

See safety data sheet.



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

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Declaration of Performance No. 0010

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

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

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