TEKNOFLOOR AQUA PRIMER 150F

Epoxy varnish

TEKNOFLOOR AQUA PRIMER 150F is a water-borne, two-pack epoxy varnish for concrete floors.

TEKNOFLOOR AQUA PRIMER 150F Epoxy varnish is used as a primer under epoxy coating and compositions as well as under polyurea coating. 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 AQUA PRIMER 150F Epoxy varnish is extremely fast drying also in low temperatures. The varnish can be used on fresh concrete that is 2 - 3 days old and instead of materials that prevent water from evaporating from fresh concrete surfaces.

TECHNICAL DATA

Certificates, approvals and classification	CE marking, M1 classification
Fields of application	Floors
Recommended substrate	Concrete
Binder	Epoxy
Solids	45 ±2% by volume
Total mass of solids	Approx. 500 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 the roughness and absorbency of the surface. Standard value for a steel-trowelled, surface-ground concrete floor: 1. application 4 - 6 m²/l. 2. application 7 - 9 m²/l.
Gloss (60°)	Full gloss
Hardener	Comp. B: TEKNOFLOOR AQUA PRIMER HARDENER 150H
Mixing ratio (A:B)	2:1 parts by volume
Pot life, +23°C	3 h
Thinner	Water (dilution volume 10 - 20%). Do not use solvents for thinning!
Storage	The storage stability is shown on the label. Store in a cool place and in tightly closed containers. Must not freeze.

DIRECTION FOR USE

Surface preparation	NEW CONCRETE SURFACES: Dense laitance is to be removed from steel-trowelled concrete by shot-blasting, surface grinding or etching. 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. OLD CONCRETE SURFACES: 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. 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. Rinse the floor with water after etching and allow to dry.
Application method	Roller
Application	MIXING OF THE COMPONENTS: At first mix the base and hardener carefully with a slow-rotating drilling machine. Thereafter dilute with water at the same time stirring. The priming is done with varnish that has bee diluted 10 - 20% by water. Pour the mixture immediately on to the floor as a streak and spread out with a short piled roller. Apply the varnish generously so that the concrete surface is saturated with the varnish. Areas where the varnish has been absorbed totally are to be treated again after about one hour (+23 °C) from the first application. If the surface remains porous, air bubbles may form when applying the varnish. Crevices and cracks are filled with TEKNOPOX FILL. The coating can be applied when the varnish has been drying for at least one hour (+23 °C). If the varnish has been drying for over 3 d (+23 °C) the varnished surface is to be rubbed down and cleaned before coating.

Application conditions

There MUST NOT BE ANY WATER on the floor during application!
During the application and drying period the temperature of the ambient air, the surface and the product shall be above +5°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.
Adequate ventilation during application and drying period is recommended.

Drying time

+23°C / 50% RH

- touch dry

1 h (ISO 9117-5:2012)

- fully cured

7 d

Overcoatable

surface temperature	by itself, withTEKNOFLOOR 200F, TEKNOFLOOR 500F, TEKNOFLOOR 660F and TEKNOPUR 300-800	
	min.	max. *
+5°C	2 h	7 d
+23°C	1 h	3 d

* 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

Water and emulsifying washing liquid.

HEALTH AND SAFETY

Safety and precaution measures

See safety data sheet.

CE	
0809	
Teknos Oy, Takkatie 3, P.O. Box 107, FI-00371 Helsinki, Finland. 20 Declaration of Performance No. 0050	
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 kg/m^2 x √h
Resistance to severe chemical attack, Class II	Requirement: Reduction in hardness of less than 50 %
Impact resistance	Class I: > 4 Nm
Adhesion strength by pull-off test	Requirement: Rigid system with trafficking: ≥ 2,0 (1,5) N/mm^2
Reaction to fire	B_{fl} - s1
Dangerous substances	See safety data sheet

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