

TEKNOFLOOR AQUA 110F A

Concrete Paint and Varnish

PAINT TYPE	TEKNOFLOOR AQUA 110F A Concrete Paint is a water-based, two-pack epoxy paint, specially for concrete floors in nuclear power plants. It provides a glossy, hard, flexible and abrasion resistant film.
USAGE	TEKNOFLOOR AQUA 110F A is used on concrete floors. Other areas of use are walls in humid conditions and walls in industry, i.e. surfaces that require a durable, dense and easy-to-clean coating. The paint can also be applied to cement plaster, brick and hard construction board surfaces.
SPECIAL PROPERTIES	TEKNOFLOOR AQUA 110F A has good abrasion resistance. It withstands water, petrol, oil, grease, even strong lye solutions, splashes of solvents and temporary action by weak acids. TEKNOFLOOR AQUA 110F A does not impart taste or odour to foodstuffs. It dries fast, so as well the priming and top coating can be done in one working day.
APPROVALS	The product fulfils the requirements stated in report STUK-YTO-TR 210 issued by STUK - Radiation and Nuclear Safety Authority, Finland. The product has CE approval for protection of concrete structures. Additional information: see page 3: "CE MARKING".

TECHNICAL DATA

Mixing ratio	Base (Comp. A): Hardener (Comp. B): TEKNOFLOOR AQUA HARDENER 110H A	1 part by volume 1 part by volume
Pot life, +23 °C	1½ h	
Solids	45 ±2% by volume	
Total mass of solids	abt. 650 g/l	
Volatile organic compound (VOC)	abt. 20 g/l	
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 m ² /l 2. application 7 - 9 m ² /l	
Drying time at +23°C / 50% RH - dust free (ISO 9117-3:2010) - fit for light traffic - fully cured	after 1 h 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.

Overcoatable

surface temperature	by itself	
	min.	max.*
+10°C	after 12 h	after 7 days
+23°C	after 4 h	after 7 days

* 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.

Thinner	Water
Clean up	Water and synthetic washing agent
Finish	Gloss
Colours	Can be adjusted individually for customers by agreement.
SAFETY MARKINGS	See Safety Data Sheet.

DIRECTION FOR USE
Surface preparation

NEW CONCRETE FLOOR:

New 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).

Surface grinding is good method to remove laitance. It is usually done on a new industrial floors as wet grinding in connection with casting. Brittle and powdery top layers are ground so that the solid concrete containing aggregates is exposed. Remove all cement dust by vacuum cleaning or brushing.

OLD CONCRETE FLOOR:

Uncoated, greasy floors can be cleaned by emulsion wash. After the emulsion wash flaking old paint coats and possible laitance is removed by diamond grinding.

TEKNOFLOOR AQUA 110F A can be applied over other types of paint, provided that the old paint has good adhesion to the substrate. If the floor will be attacked by water, e.g. in saunas and wash rooms, the surface should be roughened up by grinding. After this the floor is washed and rinsed.

Filling

TEKNOPOX FILL Epoxy stopper is used for partial or entire stopping up of concrete surfaces and filling of holes. Smooth down the stopped-up areas at the earliest after 8 hours (at +23°C).

Application

Mixing of the paint: Mix 1 part Base to 1 part Hardener by volume immediately before use and stir thoroughly. Stir the Base before mixing so that it is homogenous. If the quantity of the mixture is more than 1 liter, use a slow-rotating hand drilling machine.

Inadequate stirring or incorrect mixing ratio results in imperfect curing and impaired film properties. Ready paint is to be used within 1½ h from mixing. After this the mixture is unfit for use.

Apply two coats to new concrete floors. Dilute the paint for priming by adding 5 - 10% water. Apply the paint generously so that the porous concrete surface is sealed. The paint is diluted by water, which is added to the ready paint mixture. Solvents must not be used for diluting!

Apply by brush, short-piled mohair roller or airless spray. Use airless spray nozzles 0.015 - 0.018". Clean all equipment immediately after use with water and detergent.

Application conditions

The surface to be painted must be dry. During the application and drying period the temperature of the ambient air, the surface and the paint shall be above +10°C and the relative air humidity below 70%.

When needed arrange effective ventilation or drying, so that during the application and at least for the first 12 hours of the drying process the relative air humidity will be below 70%.

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


ADDITIONAL INFORMATION

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

MUST NOT FREEZE.

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CE MARKING

	
0809	
Teknos Oy Takkatie 3, P.O. Box 107 FI-00371 Helsinki, Finland 13 Declaration of Performance No. 0009	
0809-CPR-1063 EN 1504-2:2004 Surface protection products – Coating Physical resistance (5.1)	
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

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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