

DATA SHEET 1254

12.02.2021

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): 1 part by volume

Hardener (Comp. B): TEKNOFLOOR AQUA HARDENER 110H A

1 part by volume

Pot life, +23 °C 11/2 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 m²/l 2. application 7 - 9 m²/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

	by itself	
surface temperature	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

Colours Can be adjusted individually for customers by agreement.

SAFETY MARKINGS See Safety Data Sheet.

PTO

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 nor 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 was 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 11/2 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.

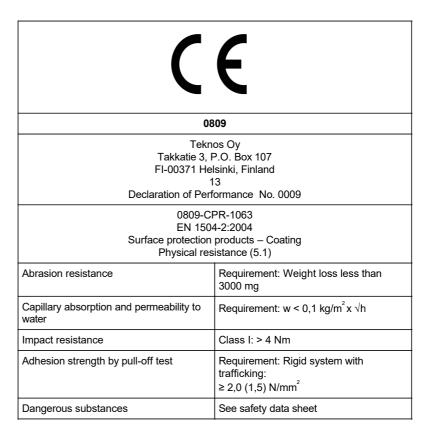
ADDITIONAL INFORMATION

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

MUST NOT FREEZE.

Continues...

CE MARKING



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.

