



Coating Solutions for  
**CONCRETE  
FLOORS**

# TEKNOFLOOR COATING SOLUTIONS

TEKNOFLOOR product family offers a full range of products for coating concrete floors, including paints and varnishes for both priming and top coating.

## Coating systems designed to answer your specific needs

We offer coating solutions for all floors, new or old, in industrial and other areas:

- Where a smooth, even surface with good mechanical and abrasion resistance is required
- In environments where withstanding water, chemicals, oil, grease and petrol is needed
- Also for use in food preparation and packaging environments

The quick drying products are easy to apply and developed to level by themselves on even surfaces. There is a wide range of colour options from popular standard colours to certain RAL colours. Preselected colour options are also available in our [TEKNOFLOOR colours](#) range.

## Durable floors with water-based epoxy

Teknos offers waterbased epoxies as an alternative to more traditional solventbased products. TEKNOFLOOR AQUA 110F is an option to reduce the total amount of VOCs and add working comfort, as it uses water as thinner and does not have strong odour. It dries fast, so the priming and top coating can be done in one working day. Waterbased products do not compromise the properties. TEKNOFLOOR AQUA 110F has a good abrasion resistance. It withstands water, petrol, oil, grease, even strong lye solutions, splashes of solvents and temporary action by weak acids.

## Technical support to ensure your success

We can support you with any questions: selecting the right coating system for your application, safety, equipment, troubleshooting and maintenance. Our specialists will gladly assist you in finding the best possible solution for your needs.

## Certified quality with TEKNOFLOOR Coatings

### CE MARKING



TEKNOFLOOR 200F, TEKNOFLOOR 500F and TEKNOFLOOR AQUA 110F are CE approved products.

The CE mark demonstrates that the product satisfies the relevant requirements set out for its function by EU directives and regulations. Receiving the mark requires testing by an external party to ensure that the paints and coatings work as promised.

### M1 CLASSIFICATION



TEKNOFLOOR AQUA 110F and TEKNOFLOOR 500F have been classified as belonging to Group M1 in the emission classification of building materials.

The M1 label shows that the products meet the M1 classification for low emission and odour to maintain good indoor air quality. The classification is performed by the Finnish Building Information Foundation.

## TEKNOFLOOR 200F SOLVENT-FREE TWO-COMPONENT COATING

### Applications

Industrial facilities, garages, warehouses.

### Properties

- Strong surface, excellent mechanical durability
- Ease of cleaning
- Withstanding of chemical stresses well
- Ease and simplicity of application

### Application conditions

The surface to be coated must be dry. New concrete must be at least four weeks old. During application and drying, the air, surface, and coating temperatures must be above 10 °C and the relative air humidity below 80%.

### Drying time

The product can withstand light traffic after 16 hours if the coating, air, and surface temperatures during coating and drying are 23 °C.

### Amount to be used

TEKNOFLOOR 200F: approx. 8 L for 20 m<sup>2</sup>, priming and one top coating  
TEKNOSOLV 9506: approx. 1 L

### Stages

1) Surface pre-treatment performed mechanically or by acid etching

#### ▪ Mechanical treatment

Dense laitance is removed from the concrete surface via grinding, sandblasting, or shot-blasting. After pre-treatment, the cement dust and other impurities are carefully removed by, for example, vacuuming.

#### ▪ Acid etching

Etching is done with the RENSA ETCHING agent. Apply the solution over the entire surface area. Remove the sludge with a brush. Rinse the floor thoroughly. Wait for the concrete to dry before applying the coating.

### 2) Priming

Mix the TEKNOFLOOR 200F components thoroughly. Dilute the mix with 10–30% TEKNOSOLV 9506. Apply the coating with a short-piled mohair roller generously so that the surface is sealed.

### 3) Top coating

A top coat with undiluted coating is applied 8–24 hours after priming. The coating is applied generously to achieve an even, thin film. Coating is performed in a similar way to that used in priming.

Teknos offers a wide variety of products to meet different customer requirements. Our specialists will gladly assist you in finding the best possible solution for your needs.

[CONTACT US](#)

## TEKNOFLOOR L40 EPOXY COATING SYSTEM TEKNOFLOOR AQUA 110F WATER-BASED TWO-COMPONENT COATING

### Applications

Basements, bathrooms, concrete floors exposed to light traffic. Suitable also for wall surfaces.

### Properties

- Strong surface, excellent mechanical durability
- Ease of cleaning
- Good withstanding of chemical stresses
- Ease and simplicity of application
- Rapid drying
- Suitability also for wall surfaces

### Application conditions

The product can be applied to a dry or slightly moist concrete surface. There must be no liquid water on the floor. During application and drying, the air, surface, and coating temperatures must be above 10 °C and the relative air humidity max. 70%.

### Drying time

The product withstands walking after four hours if the coating, air, and surface temperatures during coating and drying are 23 °C.

### Amount to be used

TEKNOFLOOR AQUA 110F: approx. 8 L for 20 m<sup>2</sup>, priming and top coating

### Stages

1) Surface pre-treatment, mechanical or by acid etching

#### ▪ Mechanical treatment

Dense laitance is removed from the concrete surface via grinding, sandblasting, or shot-blasting. After pre-treatment, the cement dust and other impurities are carefully removed by, for example, vacuuming.

#### ▪ Acid etching

Etching is done with the RENSA ETCHING agent, diluted with water 1:2 (1 part RENSA ETCHING to 2 parts water). Apply the solution to the entire surface area. Remove

the sludge with a brush. Rinse the floor thoroughly. Wait for the concrete to dry before applying the coating.

### 2) Priming

Mix the TEKNOFLOOR AQUA 110F components thoroughly. Dilute the mix with 5–10% water. Apply the coating with a short-piled mohair roller generously so that the surface is sealed.

### 3) Top coating

A top coat with undiluted coating is applied 4–12 hours after priming. The coating is applied generously to achieve an even, thin film. Coating is performed in a similar manner to that used in priming.

Note: The product must be used within 1.5 hours from mixing. Older mixtures must not be used.

## TEKNOFLOOR L44 EPOXY COATING SYSTEM TEKNOFLOOR 500F SOLVENT-FREE SELF-LEVELLING TWO-COMPONENT COATING

### Applications

Industrial facilities, garages, business facilities, repair shops, and butcheries with strong mechanical stresses.

### Properties

- Strong surface, excellent mechanical durability
- Ease of cleaning
- Good withstanding of chemical stresses
- Self-levelling on horizontal surfaces

### Application conditions

The surface to be coated must be dry. New concrete must be at least four weeks old. During application and drying, the air, surface, and coating temperatures must be above 10 °C and the relative air humidity below 80%.

### Drying time

The product withstands light traffic after 16 hours if the coating, air, and surface temperatures during coating and drying are 23 °C.

### Amount to be used

TEKNOFLOOR PRIMER 310F: approx. 4l for 20 m<sup>2</sup>, priming  
TEKNOSOLV 9506: approx. 1 L  
TEKNOFLOOR 500F: 10 L for 20 m<sup>2</sup>, coating of 0.5 mm

### Stages

1) Surface pre-treatment performed mechanically or by acid etching

#### ▪ Mechanical treatment

Dense laitance is removed from the concrete surface through grinding, sandblasting, or shot-blasting. After pre treatment, the cement dust and other impurities are carefully removed through, for example, vacuuming.

#### ▪ Acid etching

Etching is done with the RENSA ETCHING agent, diluted with water 1:2 (1 part RENSA ETCHING to 2 parts water). Apply the solution to the entire surface area. Remove the sludge with a brush. Rinse the floor thoroughly. Wait for the concrete to dry before applying the coating.

### 2) Priming with clear coat

Mix the TEKNOFLOOR PRIMER 310F epoxy clear coat components thoroughly. Dilute the mix with 30% TEKNOSOLV 9506. Apply the clear coat with a short-piled mohair roller generously so that the concrete surface is sealed. If the coated surface is moist, TEKNOFLOOR PRIMER 306F-01 epoxy clear coat may be used in priming.

### 3) Coating

The coating is applied 6–24 hours after priming, depending on the temperature. The base and hardener components are thoroughly mixed. It is recommended that a slowly rotating drilling machine equipped with a stirrer be used for mixing the components. The coating is applied by means of a steel float with 0.5 mm notches, which produces the recommended film thickness. The surface is smoothed down with a short-piled mohair roller.

## REFERENCES



NEW FIRE STATION'S FLOORING



RENEWED BREWHOUSE FLOOR



Read also [Teknos' Handbook for the Surface Treatment of Concrete](#)



**Work safety:** Sufficient ventilation must be ensured when solvent-based paints and clear coats are used. Also an approved face mask and other protective gear, including eye protection, gloves, protective clothing, and footwear, must be used. Protective gear and acid proof containers must be used when one is performing acid etching.

# WE MAKE THE WORLD LAST LONGER

Teknos is a global coatings company with operations in more than 20 countries in Europe, Asia, and the USA. Teknos is one of the leading suppliers of industrial coatings with a strong position in retail and architectural coatings.

Teknos wants to make the world last longer by providing smart, technically advanced paint and coating solutions to protect and prolong. Teknos always works in close cooperation with its customers. Teknos was established in 1948 and is one of Finland's largest family-owned businesses. For further information, visit [www.teknos.com](http://www.teknos.com).

## WOULD YOU LIKE TO KNOW MORE?

<https://www.teknos.com/floor-coatings>

