

# TEKNOFLOOR 200F

## Rollable epoxy coating

TEKNOFLOOR 200F is a two component, solvent-free epoxy coating for concrete floors.

Use: Concrete floors whenever a paint coat resistant for hard abrasion is required. TEKNOFLOOR 200F is a low viscous, self-levelling, solvent-free floor coating, which is also free from benzyl alcohol. Suitable for both priming and top coating as roller application.

The product has CE approval for protection of concrete structures.



### TECHNICAL DATA

|                                                   |                                                                                                                                                                                                                                                                      |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Certificates, approvals and classification</b> | CE marking                                                                                                                                                                                                                                                           |
| <b>Fields of application</b>                      | Floors                                                                                                                                                                                                                                                               |
| <b>Recommended substrate</b>                      | Concrete                                                                                                                                                                                                                                                             |
| <b>Binder</b>                                     | Epoxy                                                                                                                                                                                                                                                                |
| <b>Solids</b>                                     | 100 % by volume                                                                                                                                                                                                                                                      |
| <b>Total mass of solids</b>                       | Approx. 1300 g/l                                                                                                                                                                                                                                                     |
| <b>Volatile organic compound (VOC)</b>            | Approx. 0 g/l (DIRECTIVE 2010/75/EU)<br>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.                               |
| <b>Practical spreading rate</b>                   | Depending on the surface strength of the concrete.<br><br>The recommended values for surface-ground hard and vacuum concrete floors:<br>1. application with diluted coating 5 - 8 m <sup>2</sup> /l<br>2. application with undiluted coating 5 - 8 m <sup>2</sup> /l |
| <b>Colours</b>                                    | Base paints 1 and 3 and standard colour TM-114.<br>NOTE! Sunlight will change the colour and glossiness of the coating in the course of time.                                                                                                                        |
| <b>Tinting system</b>                             | Teknomix                                                                                                                                                                                                                                                             |
| <b>Gloss (60°)</b>                                | Full gloss                                                                                                                                                                                                                                                           |
| <b>Hardener</b>                                   | Comp. B: TEKNOFLOOR HARDENER 200H                                                                                                                                                                                                                                    |
| <b>Mixing ratio (A:B)</b>                         | 2,5:1 parts by volume                                                                                                                                                                                                                                                |
| <b>Pot life, +23 °C</b>                           | 45 min                                                                                                                                                                                                                                                               |
| <b>Thinner</b>                                    | TEKNOSOLV 9506                                                                                                                                                                                                                                                       |

## Storage

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

## DIRECTION FOR USE

### Surface preparation

**NEW CONCRETE SURFACES:** The 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).

Dense laitance is to be removed from steel-trowelled concrete by shot-blasting or surface grinding. 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. The concrete surface must be clean of anything that might hinder the adhesion.

Surface grinding is a good method to remove laitance from the floor. It is usually done on new industrial floors as wet grinding in connection with casting. Shot-blasting is another excellent method for removing laitance. Etching is used if grinding or shot-blasting cannot be used. It is mainly recommended for small areas.

Etching is to be done with RENSA ETCHING etching liquid. Rinse the floor with water after etching and allow to dry. On the concrete surface must not be anything that will prevent the adhesion.

**OLD CONCRETE SURFACES:** Uncoated, greasy floors are cleaned by e.g. emulsion wash. Thereafter laitance is removed by surface grinding or etching. Flaking old paint, and laitance can be removed by diamond-wheel abrading, blast-cleaning, shot-blasting or wet grinding

Crevices and cavities are to be repaired before the first application with TEKNOPOX FILL Stopper or with stiff putty prepared by mixing an adequate amount of dry sand (grain size 0.1 - 0.6 mm) with solvent-free TEKNOFLOOR PRIMER 310F Epoxy Varnish.

### Application method

Brush, Roller

## Application

**MIXING OF THE COMPONENTS:** The base and hardener are thoroughly mixed together for 2 minutes. Mixing by machine is recommended, for example a slow-rotating hand-drill equipped with a mixer. Inadequate stirring or incorrect mixing ratio results in imperfect curing and impaired film properties.

**PRIMING COAT** is applied "wet-to-wet" with paint that is diluted by 10 - 30 % with TEKNOSOLV 9506 or TEKNOSOLV 9515. TEKNOSOLV 9515 has milder odour and can therefore be used in spaces, where strong smells are to be avoided. Apply the paint generously, so that the surface is sealed. Pour the paint on the floor and apply with short-piled roller. Recoat immediately all areas that have absorbed the paint completely. The number of priming coats depends on the quality of the concrete surface. The priming coating may have to be done several times.

**TOP COAT** is applied 8 - 24 hours after the priming with undiluted paint. Apply enough coating to get a uniform, thin film. The application is done the same way as for the priming coat.

It is recommended that paint of the same batch is used for painting large uniform floors and avoid mending by re-rolling already partly dried surfaces. If paint from different batches must be used, the application is to be planned so that the seams between batches are done to natural lines, i.e. sills and expansion joints.

Wear spike-soled shoes when walking on fresh paint surface.

## 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 |       |
|---------------------|-----------|-------|
|                     | min.      | max.* |
| +10°C               | 24 h      | 48 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

## HEALTH AND SAFETY

### Safety and precaution measures

See safety data sheet.



**0809**

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

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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, Class II | 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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