

TEKNOFLOOR 2K

concrete paint

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| PAINT TYPE | TEKNOFLOOR 2K is a water-borne, two-pack epoxy paint, producing a gloss surface that is hard, elastic and abrasion-resistant. |
| USAGE | TEKNOFLOOR 2K is a paint for concrete floors. Other areas of use are walls in humid conditions and industrial areas, i.e. surfaces that require a durable, dense and easy-to-clean coating. The paint can also be applied onto cement plaster, brick and hard construction board surfaces. Examples of applications are saunas, wash rooms, cellars etc. |
| SPECIAL PROPERTIES | TEKNOFLOOR 2K has a good abrasion resistance. It withstands water, petrol, oil, grease, even strong lye solutions, splashes of solvents and temporary action by weak acids. It does not impart taste or odour to foodstuff and dries quickly, and both priming and top coating can therefore be applied within the same working day. |
| APPROVALS | The paint has been classified to Group M1 in Emission Classification of building materials. The paint has CE approval for protection of concrete structures. Additional information: see page 3: "CE MARKING". TEKNOFLOOR 2K is suitable for use in food preparation and packaging environments (Smithers Rapra, Certificate Number GC0069). Water-vapour permeability of TEKNOFLOOR 2K concrete paint fulfils the requirement of standard EN ISO 7783-1 class I, $s_p < 5$ m. |

TECHNICAL DATA

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| Solids | About 45 % by volume | |
| Mixing ratio | Base | 1 part by volume |
| | Hardener: TEKNOFLOOR 2K, HARDENER | 1 part by volume |
| Pot life, +23 °C | 1½ h | |
| Total mass of solids | abt. 650 g/l | |
| Volatile organic compound (VOC) | EU VOC limit value (kat A/j): 140 g/l. The product's VOC: max. 140 g/l. | |
| 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 | |

Drying time at +23°C / 50% RH

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| - dust free | after 1 h |
| - fit for light traffic | after 4 h |
| - fully cured | after 7 days |

- overcoatable

| Temperature | by itself | |
|-------------|------------|-----------|
| | min. | max. |
| +10°C | after 12 h | after 7 d |
| +23°C | after 4 h | after 7 d |

Increase in film thickness and rise in the relative humidity of the air in the drying space usually slow down the drying process.

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| Thinner | Water |
| Clean up | Water and synthetic washing agent |
| Finish | Gloss |
| Colours | TEKNOFLOOR 2K is included in the Teknomix Tinting System. Colours of the Teknofloor Colour Card and other colours are tinted from base paints 1, 2 and 3. |
| Packages (availability varies by country) | Base paint 1: 0,45 L, 1,35 L, 4,5 L Base paint 2: 0,45 L, 1,35 L, 4,5 L Base paint 3: 0,45 L, 1,35 L, 4,5 L Standard colours: 0,45 L, 1,35 L, 4,5 L |

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).

Remove the dense laitance from steel-trowelled concrete by surface grinding or etching. 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. Use etching if sanding is not possible. The etching is done with RENSA ETCHING etching liquid or by diluted hydrochloric acid (1 part of concentrated acid to 4 parts of water). Rinse the floor with water and allow to dry.

OLD CONCRETE FLOOR:

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

TEKNOFLOOR 2K 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 washrooms, the surface should be roughened up by grinding. After this the floor is washed and rinsed.

Filling

TEKNOFLOOR-KOVAKITTI is used for partial or entire stopping up of the surface 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%. 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.

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%.


ADDITIONAL INFORMATION

Must be stored tightly closed and kept cool.

MUST NOT FREEZE.

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CE MARKING

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| 0809 | |
| Teknos Oy Takkatie 3, P.O. Box 107 FI-00371 Helsinki, Finland 13 Declaration of Performance No. 0023 | |
| 0809-CPR-1063 EN 1504-2:2004 Surface protection products – Coatings 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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