



TIKKURILA

## NOVOFLOOR 1-K PRIMER

ONE-COMPONENT POLYURETHANE PRIMER

### DESCRIPTION

Single-component polyurethane primer cured by air humidity

### RECOMMENDED USES

New and old interior and exterior concrete floors.

### PRODUCT FEATURES

For priming concrete floors and binding dust. Particularly well-suited for priming balcony floors.  
For professional use only.



The above information is not intended to be exhaustive or complete. The information is based on laboratory tests and practical experience, and it is given to the best of our knowledge. The quality of the product is ensured by our operational system, based on the requirements of ISO 9001 and ISO 14001. As manufacturer we cannot control the conditions under which the product is being used or the many factors that have an effect on the use and application of the product. We disclaim liability for any damages caused by using the product against our instructions or for inappropriate purposes. We reserve the right to change the given information unilaterally without notice.

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## TECHNICAL DATA

|                           |                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Colour Shades</b>      | Clear.                                                                                                                                                                                                                                                                                                                                                 |
| <b>Coverage</b>           | Average coverage on concrete floors: 4–7 m <sup>2</sup> /kg.                                                                                                                                                                                                                                                                                           |
| <b>Can sizes</b>          | 3 l                                                                                                                                                                                                                                                                                                                                                    |
| <b>Thinner</b>            | Novofloor thinner                                                                                                                                                                                                                                                                                                                                      |
| <b>Application method</b> | Brush or roller.                                                                                                                                                                                                                                                                                                                                       |
| <b>Drying time</b>        | Dust-dry in 3 hours Touch-dry in 3 1/2 hours Coatable in 4–12 hours Note! The drying time will be longer if the relative air humidity is less than 50%.                                                                                                                                                                                                |
| <b>Density (kg/l)</b>     | Approx. 1.0 kg/l                                                                                                                                                                                                                                                                                                                                       |
| <b>Volume solids (%)</b>  | 40                                                                                                                                                                                                                                                                                                                                                     |
| <b>Storage</b>            | The product reacts with moisture in the air and must be stored in a sealed container. Unopened, the storage time is approx. 1 year. It is recommended that an opened container is used at once. For industrial and professional use only. <strong>As from 24 August 2023 adequate training is required before industrial or professional use.</strong> |

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## APPLICATION INSTRUCTIONS

### Application conditions

The relative humidity of the concrete should not exceed 97%. The temperature of the ambient air, surface and coating should not fall below + 10 °C during either priming or drying. The relative humidity of air should not exceed 90 %.

### Surface preparation

New concrete surfaces:

Remove the laitance layer from the concrete surface by, for example, surface sanding or hydrochloric acid pickling. Clean the surface of cement dust after sanding.

Hydrochloric acid pickling is carried out with diluted hydrochloric acid (1 part concentrated hydrochloric acid, 4 parts water). Rinse the floor with plenty of water.

The substrate has to be dry, firm and solid before surface treatment.

Old cement floor: Clean the floor and remove any grease, oil, chemicals and other impurities with Tikkurila Maalipesu cleaning agent or by sanding or blast-cleaning. Open cracks, holes and hollows down to sound concrete with, e.g. an edge grinder. Remove loose material and dust. Patch pits, cracks and holes with a suitable, cement-based mortar or a mixture of undiluted Novopox P epoxy priming oil and clean, dry sand. Ratio of epoxy priming oil to sand: 1 part priming oil to 1–2 parts grade Ø 0.1–0.6 mm sand. Sand the patched areas level with the surrounding surface prior to coating.

### Priming

Prime using Novofloor 1-K Primer polyurethane primer thinned to 20–40% with Novofloor Ohenne. Pour the priming oil mixture onto the floor and spread it evenly so that the pores of the concrete will fill up. If necessary, repeat the procedure to achieve a non-porous surface. Subsequent treatment can be carried out after 2 hours using the "wet-on-wet" technique. Use spike-soled shoes when walking on the wet surface.

Prime using Novofloor 1-K Primer thinned 20 - 40% with Novofloor Thinner. Pour and spread the primer onto the floor so that the concrete pores are filled. The treatment is repeated when necessary to achieve a nonporous surface. Renew the treatment after two hours using the "wet-on-wet" technique. Use spike soled shoes when walking on the wet primer.

### Coating

Coat with Novofloor 1-K Elastic polyurethane coating according to the product data sheet.

### Note

The product reacts with air humidity so it must be kept in a closed can. The shelf life of unopened can is approx. 1 year. Opened can is recommended to be used immediately.

### Cleaning of tools

Wash the tools with Novofloor thinner.

### Maintenance instructions

The lacquered surface will reach its final wear and chemical resistance in approx. two weeks from the surface treatment. Avoid cleaning the floor during this time. Clean the surface with a brush, mop or dust cloth. Dirty surfaces can be cleaned with a cleaning tool and a neutral (pH 6–8) washing solution.

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## Environmental protection and waste disposal

Avoid spillage into drains, water systems and soil. Destroy liquid waste according to the local regulations for hazardous waste. Recycle empty, dry cans or dispose them of in accordance with local regulations.

## Health and Safety

**Contains:** toluene diisocyanate, oligomeric reaction products with 2,2'-oxydiethanol and propyldienetrimethanol, 1,2-Ethanediamine, polymer with 2,4-diisocyanato-1-methylbenzene and 2-methyloxirane, toluene diisocyanate, 2-methoxy-1-methylethyl acetate, n-butyl acetate, xylene. **Danger.** Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing vapor. Wear protective gloves and eye or face protection. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Store in a well-ventilated place. Keep container tightly closed. Contains isocyanates. May produce an allergic reaction.



GHS02



GHS08



GHS07

# NOVOFLOOR 1-K PRIMER

EN 1504-2:2004

|                                                                        |                                             |
|------------------------------------------------------------------------|---------------------------------------------|
| CE                                                                     |                                             |
| 0809                                                                   |                                             |
| Tikkurila Oyj<br>Kuninkaalantie 1<br>FI-01300 Vantaa                   |                                             |
| 13                                                                     |                                             |
| TIK-5570-5002                                                          |                                             |
| EN 1504-2:2004                                                         |                                             |
| Product for protection and repair of concrete structures –<br>Coating. |                                             |
| Permeability to CO <sub>2</sub>                                        | s <sub>D</sub> > 50 m                       |
| Impact resistance                                                      | Class I: ≥ 4 Nm                             |
| Capillary absorption and permeability to water                         | w < 0,1 kg/m <sup>2</sup> •h <sub>0,5</sub> |
| Abrasion resistance                                                    | weight loss < 3000 mg                       |
| Reaction to fire                                                       | B <sub>f1</sub> -s1                         |
| Adhesion strength by pull off test                                     | ≥ 2,0 N/mm <sup>2</sup>                     |
| Release of dangerous substances                                        | NPD                                         |
| Permeability to water vapour                                           | class I, s <sub>D</sub> < 5 m               |

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