TIKKURILA

NOVOFLOOR 1-K ELASTIC N

ONE-COMPONENT POLYURETHANE COATING

DESCRIPTION

Elastic and hardened by air humidity, UV-resistant, low-solvent single component polyurethane floor coating.

RECOMMENDED USES

For coating the floors of balconies, outdoor corridors, outdoor passenger corridors, etc.

PRODUCT FEATURES

For floors with concrete and cement mortar surfaces that require flexibility, good water resistance and crack bridging. Particularly suitable for coating balconies. Not recommended for floors subjected to high mechanical stress.

For professional use only.

CE

NOVOFLOOR 1-K ELASTIC N

TECHNICAL DATA

Colour Shades	RAL 7032 and RAL 7035
Gloss	Semi-matt 4 (RT classification)
Coverage	Method 1: 0.5-1kg/m², dry film thickness 0.2 - 0.5mm Method 2: 1-1.6kg/m², dry film thickness 0.5-0.9mm. For waterproofing coating, use 1.6kg/m² consumption Method 3: 2.0-2.5kg/m², additionally for example 0.5-1.5mm quartz sand approx. 1.5 kg/m². Total dry film thickness 1.5 – 2.0mm.
Can sizes	12.5 kg
Thinner	Novofloor thinner (thinnable max 3 weight -%)
Application method	Spatula, mohair roller.
Drying time	Usably dry 24h Can be painted over 24h Fully hardened 7 days.
Density (kg/l)	1.6kg/l
Chemical resistance	Good
Abrasion resistance	Good
VOC	(cat A/i) 500g/l (2010) Novofloor 1-K Elastic N contains VOC max. 500g/l.
Storage	In a cool and dry place. The product reacts with moisture in the air and must be stored carefully in a sealed container. The storage time of the container if unopened, is 9 months. It is recommended that an opened container is used at once.

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APPLICATION INSTRUCTIONS

Application conditions

The concrete surface should be dry and at least 4 weeks old. The relative humidity of the concrete should be less than 97%. During painting and drying, the air, the base and the paint must be between +10 and +30ºC and the relative air humidity less than 80%.

On moist bases (relative humidity of the concrete > 97%) Temafloor 220W primer is used for priming according to the product insert.

Novofloor 1-K Elastic N can also be applied at lower temperatures (≥ + 3°C) when Novofloor Kiihdytin is added to the product (see product insert).

Surface preparation

New concrete floor:
The concrete adhesive layer is mechanically removed from the surface of the concrete, eg by sandblasting or diamond grinding. The best method for removal is chosen according to the space in question. After mechanical cleaning, the cement dust is carefully hoovered or washed off with water. Cement adhesive can also be removed with hydrochloric acid pickling. Pickling is made with diluted hydrochloric acid (1 part strong hydrochloric acid, 4 parts water). Then the floor is rinsed with plenty of water and dried well.

Old concrete floor:
The floor is cleaned of dust and loose debris. Grease, oil, chemicals and other impurities are removed by emulsion washing. Old and flaking paint is removed by sandblasting, grinding or milling. The best method for cleaning is chosen according to the space in question.
Floor holes are cleaned up all the way to a healthy and clean concrete. The cracks are opened, for example, with an angle grinder. Loose material and dust are removed.

Priming

Primer coating is done with Novofloor 1-K Primer Polyurethane Base thinned by 20-40% Novofloor Ohenne thinner. The primer is poured on the floor as a line and spread so abundant that the concrete surface is saturated. If needed, the priming treatment is done again undiluted to provide a non-porous surface.

The re-treatment is done immediately by "wet on wet" method. For moving on fresh varnish, spiked shoes are used. If the primer remains porous, it causes holes and air bubbles in the finished film.

Note! Pool gathering of Novofloor 1-K primer, for example at the bottom of a dripping groove must be avoided, because if causes bubbles on the primer and slows down the drying process.

Application

Treatment combinations

Method 1: Light usage (for example, glazed balcony), layer thickness 0.2-0.5mm
-Priming: 1-2 x Novofloor 1-K Primer (thinning 20-40%)
-Painting: 1 x Novofloor 1-K Elastic N

Method 2: Medium usage (for example, open balcony), layer thickness 0.5-0.9mm
-Priming: 1-2 x Novofloor 1-K Primer (thinning 20-40%)
-Coating: 1 x Novofloor 1-K Elastic N

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Method 3: Heavy usage with surface buffing (for example, outside corridor), layer thickness 1.5 -2.0mm
-Priming: 1-2 x Novofloor 1-K Primer (thinning 20-40%)
-Coating: 1 x Novofloor 1-K Elastic N + sanding full with quartz sand 0.5-1.5mm
-Painting: 1 x Novofloor 1-K Elastic N (thinning 3%)

Skirting/sloping surfaces:
-Coating/painting: 1 x Novofloor 1-K Elastic N + 1.5-2.0% Novofloor Paksunnin.

Non-slip buffing:
-In Methods 1 and 2, a buffing treatment may be used to increase the friction of the coating. A one pack of Tikkurila Liukueste is added into one 12.5kg container and mixed thoroughly. The coating is poured on the floor in lines and evened out by cross rolling.

Mosaic flakes:
-In Methods 1 and 2, the surface can be livened up by sprinkling the desired color of Tikkurila Mosaic flakes 30-50g/m2 on the surface.

Note! Mosaic flakes cannot be used with Method 3.

Cleaning of tools
Novofloor thinner.

Maintenance instructions
The painted surface reaches its final usage and chemical resistance about 1 week after the surface treatment. Avoid cleaning during this time. Clean the surface with a brush, mop or dusting cloth. Dirty surfaces can be cleaned with a neutral (pH 6-8) detergent moistened cleaning tool.
Note: Coffee, wine, tree/plant leaves, petals, etc. may cause discolouration of the surface. However, this does not affect the technical characteristics of the product.

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
Danger. Flammable liquid and vapor. May cause an allergic skin reaction. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Harmful to aquatic life with long lasting effects. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapor. Avoid release to the environment. Wear protective gloves/clothing and eye/face protection. In case of inadequate ventilation wear respiratory protection. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or physician. Contains isocyanates. May produce an allergic reaction. Contains: Carbonic acid, dimethyl ester, polymer with 1,6-hexanediol, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and 2-oxepanone, 1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate, 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers, 2-ethylhexyl (6-isocyanatohexyl)-carbamate, hexahydromethylphthalic anhydride, isophorone diisocyanate, hexamethylene diisocyanate.

NOVOFLOOR 1-K ELASTIC N

GHS02 GHS08 GHS07

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EN 1504-2:2004

CE
1119
Tikkurila Oyj Kuninkaalantie 1 FI-01300 Vantaa
17
TIK-A001-2017
EN 1504-2:2004
Product for protection and repair of concrete structures – Coating.

Permeability to CO2	s_D > 50 m
Impact resistance	Class I: ≥ 4 Nm

NOVOFLOOR 1-K ELASTIC N

EN 13813:2002

CE
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TIK-A002-2017
EN 13813:2002
Synthetic resin screed.
Impact resistance IR4