

## Neodur<sup>®</sup> Fast Track

### Brushable fast-curing aliphatic polyurea system, for flooring applications

**Description** **Neodur<sup>®</sup> Fast Track** is a high-solid, solvent-based polyurea coating. It is fast-drying and fast-curing, enabling the full installation of the flooring system (primer & 2 coatings) within 8 hours (25°C).

**Fields of application**

- On floors which require very high mechanical and chemical resistance, e.g.:
- Outdoor and indoor floors of warehouses, parking & car service garages
- Outdoor laundries, gas stations, ramps, etc.
- Balconies & terraces

**Properties-Advantages**

- Minimal downtime: complete application within 8 hours primer & two coats)
- Quick turnaround: fully exploitable within 24 hours
- Incomparable coverage: Just one coat after priming is sufficient in case of smooth substrate
- Applicable also when low temperatures prevail (down to +5°C)
- Unaffected by sunlight and adverse weather conditions
- Excellent resistance to abrasion and mechanical stress
- High chemical resistance (to dilute acids-alkalis, car oils, petroleum, etc.)

#### Technical characteristics

<b>Appearance</b>	Glossy
<b>Density</b>	1,30 – 1,33 kg/l
<b>Mixing ratios (weight prop.)</b>	3A:2B
<b>Consumption</b>	200 gr/m <sup>2</sup> per layer (depending on substrate)
<b>Gloss (60°)</b>	92
<b>Abrasion resistance ((Taber test CS 10/1000/1000, ASTM4060)</b>	62 mg (Taber test CS 10/1000/1000)

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<b>Adhesion strength (EN 1542)</b>	≥ 3 N/mm <sup>2</sup>
<b>Flexibility (ASTM D522, 180° bend, 1/8" mandrel)</b>	PASS
<b>Water vapour permeability (EN ISO 7783)</b>	S <sub>d</sub> = 6,1m (Class II)
<b>Capillary absorption (EN 1062-3)</b>	w = 0,03 kg/m <sup>2</sup> h <sup>0,5</sup>
<b>Permeability to CO<sub>2</sub> (EN 1062-6)</b>	S <sub>D</sub> >50m
<b>Impact resistance (EN ISO 6272)</b>	IR4 (>4Nm)
<b>Impact resistance (EN ISO 6272 on metal)</b>	7 Nm
<b>Skid resistance (EN 13036-4, wet surface, with 2,5% b.w. addition of Neotex<sup>®</sup> Antiskid M)</b>	24 (PTV scale)

### Pot Life

Temperature	Time
+12°C	20 minutes
+25°C	15 minutes
+30°C	10 minutes

### Overcoating – Walkability – Light Foot Traffic

Temperature	Time
+12°C	3 hours
+25°C	2 hours
+30°C	2 hours

### Full cure – Heavy Traffic

Temperature	Time
+12°C	36 hours

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+25°C	24 hours
+30°C	24 hours

### Instructions for use / Application notes

**Surface Preparation:** The surface must be stable, clean, dry, protected from rising moisture and free from dust, oil, grease and loose materials. Even on new concrete surfaces, proper mechanical preparation of the substrate (grinding, shotblasting etc.) is necessary to smooth irregularities, open pores and create conditions for better adhesion. Surfaces should be flat, smooth and continuous (i.e. without holes, cracks, etc.). Otherwise, they should be repaired with suitable repair materials, such as **Neodur<sup>®</sup> FT Putty** or **Epoxol<sup>®</sup> Putty**.

**Priming:** Before applying **Neodur<sup>®</sup> Fast Track**, Apply **Neodur<sup>®</sup> Fast Track PR** undiluted, or diluted with solvent **Neotex<sup>®</sup> PU 0413** up to 3% in case of high temperature during the application.

**Mixing:** Prior to mixing, mechanical stirring of component A is recommended for app. 1 minute. Then component B is added into component A at the predetermined ratio and the two components are mixed for app. 1 minute with a low-speed stirrer until the mixture is homogeneous.

**Application:** **Neodur<sup>®</sup> Fast Track** can be applied rolled or brushed without dilution, or diluted with solvent **Neotex<sup>®</sup> PU 0413** up to 3% in case of high temperature during the application. Immediately after mixing, spread all the material onto the surface and apply it homogeneously using a short pile roller or a brush where-necessary. The second layer of **Neodur<sup>®</sup> Fast Track** can be applied 2 hours after the first layer.

**Anti-slip floor:** Immediately after the application of the 1<sup>st</sup> layer of **Neodur<sup>®</sup> Fast Track**, broadcast homogeneously the floor surface with quartz sand, with maximum grain size 0,2 mm (e.g. **Quartz Sand M34**). The usage of quartz sand with higher grain size, like **Quartz Sand M32**, provides more intense anti-slip properties. After 3 hours remove the excess sand with a vacuum cleaner and re-apply **Neodur<sup>®</sup> Fast Track**. In this case, the consumption is 0,500 kg / m<sup>2</sup> for 2 coatings.

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### Special notes

- Application conditions: Surface moisture: <4%, Relative atmosphere moisture: <80%, Ambient and substrate temperature: +5°C min. / +35°C max.
- After stirring the entire mixture, leave it in the can for 1 minute and then spread immediately all the material onto the surface, to avoid the polymerization of the product into the container.
- Low temperatures during application prolong the drying time. while high temperatures and high humidity reduce it
- Due to the quick curing rate and drying time, it is suggested to thoroughly evaluate the product before using. Mix as much material as you can apply within its pot life.
- It is advisable to avoid over-rolling or back-rolling and that the application is continuous, since the fast-drying nature of the material may otherwise cause shades in the final surface
- It is recommended to change the application roller every 100m<sup>2</sup> of continuous application. Use different roller for each layer.
- The surface should be dry during application and protected from rising moisture. In case of rising moisture, the surface should be primed with **Neopox<sup>®</sup> Primer AY**.
- Allow at least 4 weeks to pass between casting new concrete structures and applying the product.
- Overcoating a freshly painted surface must take place within 24 hours, otherwise it is suggested to scrub lightly the freshly painted layer to avoid possible adhesion problems.
- In case fast setting putting is needed, use aliphatic polyurea resin **Neodur<sup>®</sup> FT Putty** or **Neodur<sup>®</sup> Polyurea M**, after the priming with **Neodur Fast Track PR**, adding 2-2,5Kg of powder quartz sand (e.g. **Quartz Sand M 300**) in 1kg of **Neodur<sup>®</sup> Polyurea M**. Mix small quantities due to the short pot-life of the mixture (5 minutes at 25°C). In case fast setting putting is not an issue in a specific project, then **Epoxol<sup>®</sup> Putty** (2A:1B by weight) can be used instead.
- **Acqua<sup>®</sup> Primer** or **Epoxol<sup>®</sup>Primer** can be used for

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priming instead of **Neodur® Fast Track PR**, if fast setting priming is not demanded.

- On metallic horizontal surfaces, apply one or two layers **Neopox® Special Primer 1225**, 24 hours before the application of **Neodur® Fast Track**.

<b>Packing</b>	Set of 5kg in tin cans (components A&B have fixed weight proportion).
<b>Colour</b>	RAL 3009, RAL 7035, RAL 7038, RAL 9003, RAL1013, RAL1018. Tailor-made shades can be produced for a minimum quantity, upon special arrangement.
<b>Stain removal</b>	While still wet, with solvent <b>Neotex® PU 0413</b> . If it has hardened, by mechanical means, in cases where it is possible.
<b>Safety Precautions</b>	See Safety Data Sheets.
<b>Storage stability</b>	2 years, stored in its original sealed packing, in an absolutely dry place, protected from frost, humidity and exposure to sunlight.

### Chemical Resistance

	1 Hour (+20°C)	5 Hours (+20°C)	24 Hours (+20°C)
Phosphoric Acid 10%	A	C	C
Sulphuric acid (10%)	A	B	C
Sulphuric acid (50%)	A	C	C
Hydrochloric Acid (10%)	A	A	C
Lactic Acid (10%)	A	A	C
Nitric Acid (10%)	A	B	C
Sodium hydroxide - caustic soda (10%)	A	A	A
Formaldehyde (10%)	A	A	C
Ammonia (10%)	A	A	A

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Chlorine (5%)	A	A	A
Diesel	A	A	A
Gasoline	A	A	A
Xylene	A	A	A
M.E.K	C	C	C
Alcohol 95°	A	A	A
Saltwater 15%	A	A	A
Engine oil	A	A	A
Red wine	A	A	A

- (A) EXCELLENT RESISTANCE  
(B) GOOD RESISTANCE (LIGHT DISCOLORATION)  
(C) POOR RESISTANCE (INTENSE DISCOLORATION)  
(D) NO RESISTANCE
-



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1922

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**EN 1504-2**

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Surface protection products

Coating

Water vapour permeability	Class II
Adhesion strength	≥1,5N/mm <sup>2</sup>
Capillary absorption and permeability to water	W<0,1Kg/m <sup>2</sup> h <sup>0.5</sup>
Permeability to CO <sub>2</sub>	S <sub>D</sub> >50m
Reaction to fire	Euroclass F
Dangerous substances	Comply with 5.3

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