

Neodur[®] Fast Track

Brushable fast-setting aliphatic polyurea system, for flooring applications

Product Description

Neodur[®] 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

- Warehouse ramps, garages, terraces, parking areas
- Outdoor and indoor stores, industrial shop floors
- Outdoor laundries, gas stations, etc.

Properties-Advantages

- **Neodur[®] Fast Track** can be applied in one layer, when the surface is smooth and appropriate pre-treated.
- It is formulated with pure aliphatic resin and contains UV filters, remaining unaffected by the sunlight and adverse weather conditions.
- It cures fast providing quick tack free time (1-2 hours), allowing most projects to be completed within one day.
- It provides high resistance to abrasion and mechanical stress.
- It shows high chemical resistance (in diluted acids-alkalis, car oils, petroleum, etc.)

Technical characteristics

Appearance	Gloss
Density	1,30 – 1,33 kg/l
Mixing ratios (weight prop.)	3A:2B
Consumption	200 gr/m ² per layer (depending on substrate)
Abrasion resistance	62 mg (Taber test CS 10/1000/1000)
Adhesion strength	≥ 3 N/mm ² (EN 13892-8, concrete)
Flexibility	PASS (ASTM D522, 180° bend, 1/8" mandrel)
Relative atmospheric humidity	<80%
Impact resistance (EN ISO 6272)	IR4
Impact resistance (EN ISO 6272 on metal)	7 Nm

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Surface humidity content	<4%
Application temperature	+5 °C up to +35°C
Total hardening	24 hours

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
+25°C	24 hours
+30°C	24 hours

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Instructions for use / Application notes

Surface preparation: The concrete surfaces must be rough (not smooth), structurally sound, thoroughly dry, free from dust, dirt, greasy and oily substances. Apply **Neodur[®] Fast Track PR** undiluted, or diluted with solvent **Neotex[®] PU 0413** up to 3% in case of high temperature during the application. Afterwards apply two coatings of **Neodur[®] Fast Track**. **Neodur[®] Fast Track** can be applied 3 hours (25°C) after the priming of the surface.

Mixing: Before application, **Neodur[®] Fast Track Part A & Neodur[®] Fast Track Part B** should be premixed in their individual containers. Add 2 parts (by weight) of Part B to 3 parts (by weight) of Part A, using a mechanical stirrer for 1 minute at low to medium speeds (300rpm).

Application: **Neodur[®] Fast Track** can be applied rolled or brushed without dilution, or diluted with solvent **Neotex[®] 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[®] Fast Track** can be applied 2 hours after the first layer.

Anti-slip floor: Immediately after the application of the 1st layer of **Neodur[®] 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[®] Fast Track**. In this case, the consumption is 0,500 kg / m² for 2 coatings.

Maintenance: Cleaning the cured system is best done by mopping the surface with mild soap and water or a mild detergent. Some cleaners may affect the colour of the installed floor. Test each cleaner used in a small area, ensuring no damage occurs.

Special notes

- 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.
- 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.
- Do not over roll or backroll during the application. Rub-out may be faced, because of quick drying.
- It is recommended to change the application roller every 100m² of continuous application. Use different roller for each layer.
- The surface should be dry during application and protected from

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rising moisture. In case of rising moisture, the surface should be primed with **Neopox[®] Primer AY**.

- The product should not be applied at temperatures <5°C, relative atmospheric humidity >80%, surface humidity content >4%, or if humid conditions are expected to prevail during the curing period of the paint film. Otherwise, blisters will be created on the surface of the coating, leading to aesthetic issues.
- 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[®] 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[®] 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[®] Putty** (2A:1B by weight) can be used instead.
- Instead of **Neodur[®] Fast Track PR**, **Acqua[®] Primer** or **Epoxol[®] Primer** can be used for priming, if fast setting priming, is not an issue in a specific project.
- On metallic horizontal surfaces, apply one or two layers **Neopox[®] Special Primer 1225**, 24 hours before the application of **Neodur[®] Fast Track**.

Packing	Set of 5kg in tin cans (components A&B have fixed weight proportion).
Storage stability	The product is stable for 2 years (5-40°C) when kept unopened in its original container, protected from frost and direct sunlight.
Auxiliary materials	Solvent Neotex[®] PU 0413: Special thinner suitable for thinning epoxy paint. Containers of 1 L Epoxol[®] Putty: 2-component, epoxy thixotropic system with increased mechanical and chemical resistance for local putting or joints sealing after priming the surface. Containers: Set of 1 kg, 6 kg Neodur[®] Polyurea M: 2-component, fast curing polyurea system with increased mechanical and chemical resistance for local putting after priming the surface.

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Containers: Set of 2kg, 20 kg

Acqua[®] Primer: 2-component, water-based epoxy primer for concrete surfaces. Containers: Set of 7 kg.

Epoxol[®] Primer: 2-component, solvent-based epoxy primer. Containers: Set of 5 kg & 10 kg.

Chemical Resistance

Table of Chemical Resistance

Type of liquid	Permanently at +20°C	Occasionally at +20°C
Distilled water	+++	+++
Salt water	+++	+++
Ethanol 15%	++	+++
Ethanol 95%	+	+
White Spirit	+++	+++
Toluene	+	+
Xylene	++	+++
MIBK	+	+
Butyl Acetate	+	+
Gasoline	++	+++
Ammonia 10%	+++	+++
NaOH 10%	+++	+++
Hydrochloric Acid 10%	++	+++
Hydrochloric Acid 37%	+	++
Sulphuric Acid 10%	+	++
Nitric Acid 10%	+	++

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Acetic Acid 10%	+	++
Phosphoric Acid 10%	+	++
Lactic Acid 10%	+	++
Citric acid 10%	+	++
Skydrol	+	++
Engine oil	++	+++
+++ Excellent resistance, ++ Good resistance/some effect, swelling or discoloration, + Poor resistance		