

Neodur® FT Elastic

Brushable fast-setting elastic polyurea system for flooring applications

Description of the product

Neodur® FT Elastic is a high-solid, solvent based, polyaspartic polyurea coating for waterproofing and flooring applications. It combines resistance to mechanical loading with excellent waterproofing properties on roof parking decks, tiled surfaces, terraces and roofs of high traffic. It can be applied as a top coat over **Neoproof Polyurea** systems or aromatic waterproofing systems. It is fast-drying and fast-curing, enabling the full installation of the flooring system (primer & 2 coats) within 11 hours (25°C).

Fields of application

- Roof parking decks
- Balconies, terraces with high traffic and tiled surfaces
- Top coat over other waterproofing systems

Properties-Advantages

- Combines mechanical durability with waterproofing properties
- 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 (4 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	1,28 ±0,02gr/ml
Mixing ratio (weight prop.)	3A:2,5B
Consumption	300 gr/m ² per layer (depending on substrate)
Service temperature	-30°C min / +80°C max
Abrasion resistance	75mg (Taber test CS 10/1000/1000, ASTM D4060)
Adhesion strength	≥ 3 N/mm ² (EN 13892-8, concrete)
Flexibility	PASS (ASTM D522, 180° bend, 1/8" mandrel)



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Hardness Shore A (EN ISO 868:2003/ASTM 2240)	18
Elongation at Break (ASTM D412, +25°C)	170%
Tensile Strain at Break (ASTM D412, +25°C)	14MPa
Impact resistance (EN ISO 6272)	IR4(>4Nm)
Impact resistance (EN ISO 6272 on metal)	8 Nm
Relative atmospheric humidity	<80%
Surface humidity content	<4%
Application temperature	+5 °C up to +35°C
Dry to recoat –Walkability(+25°C)	4 hours
Pot Life(+25°C)	30min
Total hardening	24 hours

Pot life

Temperature	Time
+12°C	40 minutes
+25°C	30 minutes
+30°C	15 minutes

Overcoating – Walkability – Light Foot Traffic

Temperature	Time
+12°C	5 hours
+25°C	4 hours
+30°C	4 hours



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Full cure – Heavy Traffic

Temperature	Time
+12°C	36 hours
+25°C	24 hours
+30°C	24 hours

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® FT Elastic**. **Neodur® FT Elastic** can be applied 3 hours (25°C) after the priming of the surface.

Mixing: Before application, **Neodur® FT Elastic Part A & Neodur® FT Elastic Part B** should be premixed in their individual containers.

Add 2,5parts (by weight) of Part B to 3 parts (by weight) of Part A, using a mechanical stirrer for 1 minute at low to medium revs (300rpm).

Application: **Neodur® FT Elastic** can be applied by roller or brush. Immediately after mixing, spread all the material onto the surface and apply it homogenously using a roller or a brush where is necessary.

Special notes

- After stirring the entire mixture, leave it in the can for 3 minutes 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 back-roll during the application. Rub-out may occur, because of quick drying.
- Allow at least 4 weeks to pass between casting new concrete structures and applying the product.
- The surface should be dry during application and protected from rising moisture.

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- The product should not be applied at temperatures $<5^{\circ}\text{C}$, relative atmospheric humidity $>80\%$, surface humidity content $>4\%$, or if humid conditions are expected to prevail during the curing period of the film. In an opposite case blisters will develop on the surface of the coating, leading to aesthetic issues.
- Over-coating 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 the aliphatic polyurea resin **Neodur® Polyurea M**, (3 hours after 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, then **Epoxol® Putty** (2A:1B by weight) can be used instead.
- **Acqua® Primer** or **Epoxol® Primer** can be used for priming instead of **Neodur® Fast Track PR**, if fast setting priming is not demanded.
- On metallic horizontal surfaces, apply one or two layers of **Neopox® Special Primer 1225**, 24 hours before the application of **Neodur® FT Elastic**.

Packing	Set of 5,5 kg in tin cans (components A&B have fixed weight proportion).
Storage stability	The product is stable for 2 years ($5-40^{\circ}\text{C}$) when kept unopened in its original container, protected from frost and direct sunlight.
Auxiliary materials	<p>Solvent Neotex® PU 0413: Special thinner suitable for thinning PU paints.</p> <p>Containers of 1 L</p> <p>Epoxol® Putty: 2-component, epoxy thixotropic system with increased mechanical and chemical resistance for local putting or joints sealing after priming the surface.</p> <p>Containers: Set of 1 kg, 6 kg</p> <p>Neodur® Polyurea M: 2-component, fast curing polyurea system with increased mechanical and chemical resistance for local putting after priming the surface.</p> <p>Containers: Set of 2kg, 20 kg</p> <p>Acqua® Primer: 2-component, water-based epoxy primer for concrete surfaces. Containers: Set of 7 kg.</p>

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

Colors RAL 1013, RAL 3009, RAL 7035, RAL 7038, RAL 9003. Tailor-made shades can be produced for a minimum quantity, upon special arrangement.

Safety Precautions See Safety Data Sheets.

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
Chlorine (5%)	A	A	A
Diesel	A	A	A
Gasoline	A	A	A
Xylene	A	A	A
M.E.K	C	C	C



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Alcohol 95 ⁰	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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