



Neodur[®] Fast Track

Fast-curing, brushable aliphatic polyurea system



Description

Innovative, fast-curing, high-solid brushable two-component aliphatic polyurea system, for exterior and interior flooring applications.

Dries and cures quickly, enabling the complete application of the flooring system within one day, as well as the delivery of the project the very next day (full traffic).

Fields of application

Outdoor and indoor floors, where high mechanical and chemical resistance are required, such as shops, warehouses, parking and service garages, laundries, gas stations, etc.

The surfaces require appropriate preparation and priming prior to the application of Neodur[®] Fast Track.



Packing

Sets (A+B) of 5kg

Colours

RAL 9003	RAL 1013	RAL 7035
RAL 3009	RAL 7038	RAL 1018

Properties - Advantages

- Minimum downtime: dry to recoat in 2 hours, facilitating the complete application of the flooring system within 8 hours (primer & two coats)
- Quick turnaround: fully exploitable within 24 hours
- Unaffected by sunlight and adverse weather conditions
- Incomparable coverage: Just one coat after priming is sufficient, when the substrate is smooth and properly prepared
- Also applicable when low temperatures prevail
- Excellent resistance to abrasion and mechanical stress
- High chemical resistance (to dilute acids, alkalis, car oils, petroleum etc.)



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Certificates – Test reports

- CE Certification acc. to EN 1504-2
Certificate of Conformity No. 1922-CPR-0386
- Test report by the external independent quality control laboratory Geoterra (No. 2016/1003 & 2020/190_2)
- Complies with the V.O.C. content requirements acc. to the E.U. Directive 2004/42/CE

Technical characteristics

Mixing ratio A:B (w/w)	3:2
Density (EN ISO 2811-1)	1,30kg/L (±0,1)
Gloss (60°)	92
Abrasion resistance (Taber Test, CS 10/1000/1000, ASTM D4060)	62mg
Adhesion strength (EN 1542)	>3N/mm ²
Flexibility (ASTM D522, 180° bend, 1/8" mandrel)	Pass
Scratch hardness (Sclerometer Test - Elcometer 3092)	9N
Skid resistance (EN 13036-4, wet surface, with 2,5% w/w addition of Neotex® Antiskid M)	24 (PTV – slider 55)
Skid resistance (EN 13036-4, wet surface, by broadcasting quartz sand M-32)	>24 (PTV – slider 55)
Liquid water permeability (EN 1062-3)	<0,1kg/m ² h ^{0,5}
Permeability to CO ₂ – Diffusion-equivalent air-layer thickness Sd (EN 1062-6)	>50m
Water vapour permeability – Diffusion-equivalent air-layer thickness Sd (EN ISO 7783)	>5m (Class II)
Resistance to temperatures (dry loading)	min. -20°C / max. +80°C
Consumption: 200gr/m² per layer	

Application conditions

Substrate moisture content	<4%
Relative air humidity (RH)	<80%
Application temperature (ambient - substrate)	+5°C min. / +35°C max.
* Neodur® Fast Track may be applied in colder conditions, if required, as it dries even at low temperatures down to -10°C, without significant changes in the technical properties of the final surface. In such case, the times of workability and curing are significantly affected, depending on the prevailing atmospheric conditions.	



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Curing details

Pot life (RH 50%)	+12°C	20 minutes
	+25°C	15 minutes
	+30°C	10 minutes
Dry to recoat – Walkability (RH 50%)	+12°C	3 hours
	+25°C	2 hours
	+30°C	2 hours
Full cure – Heavy traffic (RH 50%)	+12°C	36 hours
	+25°C	24 hours
	+30°C	24 hours

* Low temperatures during application and/or curing prolong the above times, while high temperatures and high humidity reduce them

Appropriate primers on cementitious substrate

	Primer	Description - Details
Solvent-based	Neodur® Fast Track PR	<i>Fast-drying</i> , two-component solvent-based hybrid polyurea – polyurethane primer
	Epoxol® Primer	Two-component, solvent-based epoxy primer
Water-based	Acqua Primer	Two-component, water-based epoxy primer
Solvent-free	Neodur® Primer SF	<i>Fast-drying</i> , two-component, solvent-free hybrid polyurea – polyurethane primer
	Epoxol® Primer SF	Two-component, solvent-free epoxy primer for flooring applications
	Epoxol® Primer SF-P	Two-component, solvent-free epoxy primer, ideal in cases of substrates with increased porosity
	Neopox® Primer WS	Two-component, solvent-free epoxy primer for wet surfaces (without ponding water or rising moisture)
	Neopox® Primer AY	Two-component, solvent-free anti-osmotic epoxy primer, for floors with rising moisture



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Special notes

- **Neodur® Fast Track** should not be applied under wet conditions, or if wet conditions or rainy weather are expected to prevail during the application or the curing period of the product
- The components should not have been stored at very low or very high temperatures, especially before mixing. Mixing and stirring of the mixture should be preferably done in the shade. The stirring of the mixture must be done mechanically and not manually with a rod, etc.
- Excessive stirring of the material should be avoided, in order to mitigate the risk of air entrapment. After stirring the mixture, it is recommended to apply the material shortly in order to avoid the development of high temperatures and potential hardening inside the can
- The substrate temperature must be at least 3°C above dew point to reduce the risk of condensation or blooming on the floor finish
- In case that an extended period of time (>24 hours) has passed between successive layers, it is recommended to lightly sand the surface of the previous layer, in order to avoid possible adhesion problems of the next layer
- The material may be diluted up to 3% with solvent **Neotex® PU 0413** when the temperature during application is high.
- 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
- Depending on the desired slip resistance, quartz broadcast may be done by using quartz sand of greater granulometry (e.g. 0,4-0,8mm). In such case, the number of sealing layers and total consumption may increase

Maintenance instructions

- In case of minor spills and stains, it is recommended to remove them as soon as possible by using a soft cloth along with warm clean water (temperature <+60°C)
- For the maintenance cleaning of the surface from dust and dirt, it is recommended to use a vacuum cleaner or a soft bristle broom. The use of hard brushes or wires to remove the stains should be avoided
- For cleaning the surface from hardened stains, it is recommended to use a hard foam mop with a solution of water and ammonia (~3% dilution). Then, rinse off with clean warm water (temperature <+60°C) and dry the surface with a soft towel
- In case of using commercial cleaning products, the use of neutral ones is recommended (pH between 7 and 10). Soaps or all-purpose cleaners containing water-soluble salts or harmful ingredients with high concentration in alkalis or acids should be avoided. Follow the manufacturer's recommendations with respect to the optimum dilution with water. In any case, the first time a commercial cleaning product is used, it is recommended that a trial is made in a small surface area



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Chemical resistance table

Chemical substances (% content)	Contact time with chemicals (+20°C)		
	1 hour	5 hours	24 hours
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 (10%)	A	A	A
Formaldehyde (10%)	A	A	C
Ammonia (10%)	A	A	A
Chlorine (5%)	A	A	A
Diesel	A	A	A
Gasoline unleaded	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
Wine (red)	A	A	A

Evaluation of resistance

A: Excellent resistance

B: Good resistance (light discoloration)

C: Reduced resistance (intense discoloration)

D: Not recommended



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Colours	White RAL 9003, Light beige RAL 1013, Light grey RAL 7035, Oxide red RAL 3009, Grey RAL 7038, Yellow RAL 1018 Tailor-made shades available, upon special arrangement
Packing	Sets (A+B) of 5kg in metallic containers
Cleaning of tools – Stains removal	By Neotex® PU 0413 immediately after application. In case of hardened stains, by mechanical means
Volatile organic compounds (V.O.C.)	V.O.C. limit acc. to the E.U. Directive 2004/42/CE for this product of category AjSB: 500g/l (Limit 1.1.2010) - V.O.C. content of the ready-to-use product <500g/l
UFI code	<i>Component A:</i> 2Q30-00XG-200E-9RTV <i>Component B:</i> MS30-H0MV-C00X-X3DX
Versions	Neodur® Fast Track SF , fast-drying solvent-free aliphatic polyurea system, for flooring applications
Storage stability	<i>Component A:</i> 2 years, stored in its original sealed packing, protected from frost, humidity, and exposure to sunlight <i>Component B:</i> 1 year, stored in its original sealed packing, protected from frost, humidity, and exposure to sunlight