

Neodur® FT Elastic

Brushable fast-curing elastic polyurea system for waterproofing & flooring applications

Fields of application

Neodur® FT Elastic is an innovative high-solid, solvent-based, brushable polyaspartic polyurea system, suitable for the protection of floors, where waterproofing and high mechanical strength are required. Ideal for car parking decks in roofs, for balconies & terraces with high traffic, for applications over tiles, or as a protective top coat over aromatic waterproofing systems. It can also be applied as a top coat over **Neoproof® Polyurea** systems.

Properties-Advantages

Combines high abrasion resistance and mechanical durability with outstanding waterproofing properties and resistance to chemicals. Due to its aliphatic nature, it remains unaffected by sunlight and adverse weather conditions. It is resistant to early rainfall and dries quickly, allowing most projects to be completed within one day's time. Certified with CE (EN 1504-2)

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 (Taber test CS 10/1000/1000, ASTM D4060)	75mg
Adhesion strength (EN 1542)	≥ 3 N/mm ²
Flexibility (ASTM D522, 180° bend, 1/8" mandrel)	PASS
Hardness Shore A (EN ISO 868:2003/ASTM 2240)	80
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

Neodur[®] FT Elastic

Skid Resistance (EN 13036-4:2011) – wet surface +2,5% (by weight) 35 PTV range

Neotex[®] Antiskid M

Skid Resistance (EN 13036-4:2011) – wet surface + quartz sand D50 260µm(M-32) 25 PTV range

V.O.C. limit acc. to the E.U. Directive 2004/42/CE for this product of category AjSB “Two-Pack reactive performance coatings”: 500g/l (Limit 2010). V.O.C. content of the ready to use product <500g/l.

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

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

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 essential. Any needed repairs should be executed by suitable repairing materials, such as the polyaspartic putty **Neodur[®] FT Putty**.

Priming: Before applying **Neodur[®] FT Elastic**, it is recommended to apply the hybrid fast-drying primer **Neodur[®] Fast Track PR** or another appropriate **NEOTEX[®]** primer, depending on the substrate.

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. 1-2 minutes with a low speed stirrer until the mixture is homogeneous. The mixture is then left for app. 3 minutes and afterwards, poured immediately on the surface as a whole and spread onto the substrate, in order to avoid possible drying of the mixture inside the can.

Application: **Neodur[®] FT Elastic** is applied by roller or paintbrush in one or more layers, depending on the application

Notes

- **Application conditions:** Surface moisture: <4%, Relative atmosphere moisture: <80%, Ambient and substrate temperature: +5°C min. / +35°C max.
- **Neodur[®] FT Elastic** should not be applied under wet conditions, or if wet conditions are expected to prevail during the curing period of the product
- Low temperatures and high humidity during application prolong the drying time. while high temperatures reduce it
- The material may be diluted up to 3% with solvent **Neotex[®] PU 0413** when the temperature is high during application
- 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
- The surface should be dry during application and protected from rising moisture
- Over-coating a freshly painted surface must take place within 24 hours, otherwise it is suggested to scrub lightly the freshly painted layer
- **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

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application of **Neodur[®] FT Elastic.**

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

Cleaning of tools & stain removal By **Neotex[®] PU 0413** immediately after application

Storage stability 2 years, stored in its original sealed packing, in an absolutely dry place, protected from frost, humidity and exposure to sunlight.

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
Alcohol 95 ⁰	A	A	A



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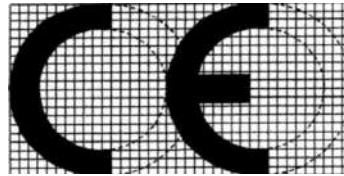
Saltwater 15%	A	A	A
Engine oil	A	A	A
Red wine	A	A	A

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



The information supplied in this datasheet, concerning the uses and the applications of the product, is based on the experience and knowledge of NEOTEX[®] SA. It is offered as a service to designers and contractors in order to help them find potential solutions. However, as a supplier, NEOTEX[®] SA does not control the actual use of the product and therefore cannot be held responsible for the results of its use. As a result of continual technical evolution, it is up to our clients to check with our technical department that this present data sheet has not been modified by a more recent edition.

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1922

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1922-CPR-0386

Dop No./4950-36

EN 1504-2

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Σύστημα προστασίας επιφανειών σκυροδέματος

Surface Protection System for Concrete

Επικάλυψη

Coating

Διαπερατότητα υδρατμών /Water Vapour
Permeability

Κατηγορία/Class II

Αντοχή αποκόλλησης /Adhesion Strength

$\geq 1.5N/mm^2$

Τριχοειδής απορρόφηση και υδατοπερατότητα/
Capillary Absorption and permeability to water

$W < 0.1Kg/m^2h^{0.5}$

Διαπερατότητα σε CO₂/Permeability to CO₂

$S_D > 50m$

Αντίδραση στη φωτιά/Reaction to Fire

Ευρωκατηγορία /Euroclass F

Επικίνδυνες ουσίες/Dangerous Substances

Σύμφωνα με 5.3/Comply with 5.3