

Neodur[®] Special

Aliphatic polyurethane, solvent-based paint, suitable for external flooring applications

Fields of application

- Warehouse ramps, garages, terraces
- Metallic constructions
- Outdoor stores
- Outdoor laundries, gas stations, etc.

Properties-Advantages

- It contains UV filters. It is not affected by the sunlight and weather conditions
- It has a very good resistance to abrasion and mechanical stress
- It has a high chemical resistance (in diluted acids-alkalis, car oil, petroleum, etc.)

Technical characteristics

Density	1,25 – 1,30 kg/l
Gloss 60°	80 - 85
Mixing ratios (weight prop.)	75A: 25B
Consumption	350gr/m ² for two coats
Abrasion resistance	58 mg (Taber test CS 10/1000/1000)
Adhesion strength	≥ 3 N/mm ² (concrete)
Flexibility	PASS (ASTM D522, 180° bend, 1/8" mandrel)

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Pot Life

Temperature	Time
+12°C	1 hour
+25°C	45 minutes
+30°C	30 minutes

Overcoating

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

Walkability

Temperature	Time
+12°C	30 hours
+25°C	24 hours
+30°C	18 hours

Instruction for use

Construction surfaces: The surfaces must be rough (not smooth), free from dust, dirt, greasy and oily substances. Apply **Epoxol[®] Primer** diluted with solvent **Neotex[®] 1021** (10-15%). If the moisture of the substrate is up to 8%, there is no rising moisture and the substrate temperature is > +12°C the surface should be primed with water-based primer **Acqua[®] Primer**. Afterwards, apply two coatings of **Neodur[®] Special** diluted with solvent **Neotex[®] PU 0413** (5-10%). **Neodur[®] Special** must be applied 24 hours after the priming of the surface.

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Metallic surfaces: Clean the surface from rust by sandblasting or with the use of a wire brush. Then apply one coat of **Neopox[®] Special Primer 1225** (mixing ratio 80A:20B) diluted with solvent **Neotex[®] 1021** (5%), to protect against rust. After that, apply two coatings of **Neodur[®] Special** diluted with solvent **Neotex[®] PU 0413** (5-10%).

Anti-slip floor: Immediately after the application of the primer broadcast the floor surface with quartz sand, maximum grain size 0,2 mm (e.g., M34). The next day remove the excess sand with a vacuum cleaner and apply **Neodur[®] Special**. In this case, the consumption is 0,380 kg / m² for 2 coatings.

Special notes

- Low temperatures and high humidity during application prolong drying time.
- The surface should be dry during paint application and protected from rising moisture attack. If there is rising moisture the surface should be primed with **Neopox[®] Primer AY**
- The product should not be applied at temperatures <12°C, relative atmospheric humidity >65%, surface humidity content >4%, or if humid conditions are expected to prevail during the curing period of the paint film.
- Allow at least 4 weeks to pass between casting new concrete structures and painting them with the product.
- Over coating a freshly painted surface must take place within 2 days, otherwise it is suggested to scrub lightly the freshly painted layer to avoid possible adhesion problems.

Colours

Available in four RAL shades (1013, 7035, 7040, 3009, 9003)

Cleaning of tools

Immediately after the application with solvent **Neotex[®] PU 0413**

Packing

Sets of 5kg and 10kg in tin cans (components A&B have fixed weight proportion).

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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® 1021**: Special thinner suitable for thinning epoxy paint

Containers of 1 kg, 5 kg, 20 kg

Solvent **Neotex® PU 0413**: Special thinner suitable for thinning polyurethane paint

Container of 1 kg

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, 6kg and 20 kg

Chemical Resistance

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

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Gasoline	A	A	A
Xylene	A	A	A
M.E.K	A	A	A
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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Surface protection products

Coating

Water vapour permeability	Class II
Adhesion strength	$\geq 1,5\text{N/mm}^2$
Capillary absorption and permeability to water	$W < 0,1\text{Kg/m}^2\text{h}^{0,5}$
Permeability to CO ₂	$S_D > 50\text{m}$
Reaction to fire	Euroclass F
Dangerous substances	Comply with 5.3

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