NEOTEX S.A.
ESTABLISHED IN 1959
CONSTRUCTION CHEMICALS
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Neodur® Varnish

Transparent, two-component, polyurethane varnish

Description of the product	**Neodur® Varnish (gloss or mat)** is a two component, acrylic-polyurethane varnish, cured with aliphatic polyisocyanates. It contains UV filters. It is suitable for the protection of cement based surfaces, such as decorative cement screed.
Uses	Protection of decorative cement screed, metallic surfaces, cement, stone, polyester, industrial flooring and constructions in areas adjacent to the sea. It can be applied in two coats as protective varnish after epoxy coatings to pools, offering durability and UV protection, delaying the caulking phenomenon (especially in swimming pools the gloss version is proposed).
Properties-Advantages	Long-term UV resistance. Does not become yellowish, with very good gloss retention even after several years. It offers chemical resistance (dilute acids, alkalis) and high mechanical strength and abrasion resistance. Protects against water absorption and enhances the mechanical strength of decorative cement screed. It has strong adhesion, excellent hardness and long lasting durability against weathering. It provides gloss or mat surface maintaining the physical appearance of the decorative cement screed.

Technical characteristics

Consumption	125gr/m^2 on properly prepared surfaces
Application temperature	+12 ^oC up to +35^oC
Density	Component A:0,98-1,02kg/L, Component B: 1,01kg/L
Gloss 60^o (gloss)	90
Gloss 60^o (mat)	30
Mixing ratio (gloss)	3,6A:1,4B
Mixing ratio (mat)	3,8A:1,4B
Total hardening	7 days at +25^oC
VOC (Category AiD)	Two component special coatings (VOC limit 2010:500 g/lt). Ready to use:<498 g/lt
Abrasion Resistance	42 mg - Taber Test ASTM D 4060 (CS 10/1000/1000)
Adhesion Strength (EN 13892-8)	≥2, 5 N/mm^2
Resistance to temperature change	-30°C up to +80°C (Dry loading)
Flexibility	PASS (ASTM D522, 180° bend, 1/8" mandrel)

Instruction for use

The surface should be clean, free from dust, greasy, loose particles and old varnishes or primers with mechanical or chemical means. Surfaces where water repellent impregnations (siloxane or waxes) have been applied in the past might cause adhesion problems. After mixing the two components for 3 minutes, the mixture is advised to let it rest for 5 minutes before application and then the varnish is applied by roller or brush in at least two layers. When it is applied as a protective varnish for decorative cement screed the surface should be primed one day before, with the hybrid primer **Neodur® Varnish PR**.

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Pot Life

Temperature	Time
+12°C	2,5 hours
+25°C	2 hours
+30°C	1 hour

Overcoating

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

Walkability

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

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Notes	The surfaces must be dry during application (the substrate's moisture content must be <4% and the ambient moisture <65%). High atmospheric moisture can affect negatively the curing of the varnish. If there is the possibility of rain in the next 48 hours, the application of the varnish must be postponed. **Neodur® Varnish / Neodur® Varnish Mat** can be diluted with solvent **Neotex® 1021**.
Cleaning of tools	Immediately after the application with solvent **Neotex® 1021**
Packing (gloss)	Set of 15kg, 5kg and 1kg in metallic containers
Packing (mat)	Set of 15,6kg, 5,2kg and 1kg in metallic containers
Storage stability	**Neodur® Varnish / Neodur® Varnish Mat** A component: At least 2 years if kept in the original sealed packaging, protected from frost, humidity and exposure to solar radiation. **Neodur® Varnish / Neodur® Varnish Mat** B component: At least 12 months if kept in the original sealed packaging, protected from frost, humidity and exposure to solar radiation. Component B must be stored in absolutely dry place protected from frost and humidity. In case of contact with ambient moisture it can be polymerized into the container.