

Neocryl[®] Special



**High performance water-based, one-component, coating
for exterior floors**

Description

High performance, one-component, water-based floor coating, specially formulated based on durable acrylic resins, suitable for exterior applications on floors made of cement or asphalt.

Fields of application

- Residential garages
- Storage areas of residencies or shops
- Pavements
- Patios of residential and commercial buildings
- Walls in highways, surrounding areas, etc.

The surfaces require appropriate preparation and priming prior to the application of Neocryl[®] Special.



Packing

9L, 3L & 0,75L

Colours

WHITE

RAL 7035

RAL 7037

Properties - Advantages

- Excellent resistance to UV radiation and adverse weather conditions
- Strong adhesion on floors made of concrete, cement screed or asphalt
- Renders a mat final surface with high anti-slip properties
- Very good abrasion resistance – Suitable for floors with light traffic
- High coverage and quick recoating
- Resistant to alkalis of the cement
- Offers excellent protection to concrete surfaces against carbonation
- Prevents dust generation
- Eco-friendly & user-friendly (water-based, one-component)

Certificates – Test reports

- CE Certification acc. to EN 1504-2
- Test report by the external independent quality control laboratory Geoterra (No. 2019/300)
- Complies with the V.O.C. content requirements acc. to the E.U. Directive 2004/42/CE



Technical characteristics

Density (EN ISO 2811-1)	1,30kg/L (±0,1)
Gloss (60°)	5-6
Abrasion resistance (Taber Test, CS 10/1000/1000, ASTM D4060)	190mg
Adhesion strength (EN 1542)	≥2,5N/mm ²
Flexibility (ASTM D522, 180° bend, 1/8" mandrel)	Pass
Scratch hardness (Sclerometer Test - Elcometer 3092)	2,5N
Skid resistance (EN 13036-4, wet surface)	41 (PTV – slider 96)
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)
Coverage: • 4-5m²/L for two layers (cementitious surface) • 3-4m²/L for two layers (asphalt substrate)	

Application conditions

Substrate moisture content	<4%
Relative air humidity (RH)	<80%
Application temperature (ambient - substrate)	+8°C min. / +35°C max.

Curing details

Drying time (RH 50%)	+25°C	1 hour (initially)
Dry to recoat (RH 50%)	+12°C	8 hours
	+25°C	4 hours
Full hardening	~ 5-6 days	

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

Appropriate primers on usual substrates

Substrate	Primer	Description - Details
Concrete, cement screed	Revinex® (diluted with water 1:4)	Water-based primer of high adhesion on cementitious substrates
	Silatex® Primer	Acrylic solvent-based primer, with high penetrating ability
	Vinyfix® Primer	Solvent-based primer based on vinyl resins, ideal for stabilizing brittle substrates
	Acqua Primer NP	Water-based epoxy primer

Instructions for use

Substrate preparation

Concrete

The concrete must be min. Grade C20/25, with a tensile strength of $\geq 1,5\text{MPa}$, and allowed to cure for at least 28 days, taking all the necessary maintenance measures during its curing period. The cementitious substrate must be properly prepared mechanically (e.g. grinding, shot blasting, milling etc.) to smooth out the irregularities, achieve an open-textured surface and ensure optimum adhesion.

The surface must be dry and protected from rising moisture, stable, clean and free of dust, grease, oil, etc. Loose friable material must be fully removed by brushing or sanding with a suitable machine and a high suction vacuum cleaner.

The surface must be as smooth and flat as possible, as well as continuous (ie without voids, cracks etc.)

Repairs to the substrate, filling of joints, blowholes/voids and surface leveling must be carried out using appropriate repairing products, such as the non-shrinking cementitious repairing mortar **Neorep®**.

Ashpalt

The asphalt substrate must be thoroughly prepared by high-pressure water-jetting and be left to dry completely.

The substrate must be stable, clean, dry & protected from rising moisture, as well as free of dust, oil, grease, dirt, moss and any loose or poorly adhering material. Loose friable material must be completely removed by brushing or grinding and high suction vacuum cleaner. The surface must be as smooth and flat as possible, as well as continuous.

Priming

Prior to the application of **Neocryl® Special**, the proper **NEOTEX®** primer should be applied, depending on the substrate. In the case of cementitious substrates, it is proposed to apply **Revinex®** diluted with water in a ratio **Revinex®**: water - 1:4, or alternatively **Silatex® Primer**, **Vinyfix® Primer** or **Acqua Primer NP**. In cases of substrates with increased porosity, an additional priming layer may be required.

Application

Following the priming of the surface, **Neocryl® Special** is applied, after thorough stirring, by roller, brush or airless spray in at least two layers. The first layer is diluted ~10-15% with clean water, while the second layer (and every potential subsequent one) is applied diluted ~10%.

Special notes

- **Neocryl® Special** 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.
- Substrate temperature during application and curing must be at least 3°C above dew point to avoid condensation issues.
- In case of demand for higher anti-slip properties, the addition of the anti-slip additive **Neotex® Antiskid M** inside the pail of **Neocryl® Special** is recommended, prior to the application of the final layer and in a ratio of 1,5-2,5% by weight of the liquid product. Alternatively, Quartz Sand M-32 may be added inside the pail of **Neocryl® Special** in a ratio of 10-25% w/w.

Appearance (cured)	Mat
Colours	White, Light Grey RAL 7035, Grey RAL 7037 – Tailor-made shades available, upon special arrangement Available also in D base, offering versatility for the creation of the requested shade
Packing	9L, 3L and 0,75L in plastic pails
Cleaning of tools – Stains removal	By water 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 AiWB: 140g/l (Limit 1.1.2010). V.O.C. content of the ready to use product <140g/l.
UFI code	MF30-GOV9-400X-9R2P
Versions	Neocryl® Sport Flex , flexible water-based polymer-modified coating, based on acrylic resins, for sport floors
Storage stability	2 years, stored in its original sealed packing, protected from frost, humidity and exposure to sunlight

CE	
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DoP No.: 4950-54 EN 1504-2 Neocryl® Special 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	Complies with 5.3

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 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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