

Neocryl® Sport Flex



**Flexible water-based acrylic coating,
for sport floors**

Description

One-component, water-based flexible polymer-modified coating, based on acrylic resins, suitable for sport floors

Fields of application

- Sport courts (e.g. tennis, basketball, volleyball)
- Schoolyards, residential patios and surrounding walls

The surfaces require appropriate preparation and priming prior to the application of Neocryl® Sport Flex.

Properties - Advantages

- Increased flexibility and anti-slip properties
- Excellent adhesion on floors made of asphalt, concrete, cement screed, hard quick
- Very good resistance to the sun and weather conditions
- Eco-friendly & user-friendly (water-based, one-component)



Packing

12kg & 4kg

Colours

WHITE	TERRACOTTA
GREEN	RAL 5024

**RAL 5024 available only in 12kg packing*

Certificates – Test reports

- CE Certification acc. to EN 1504-2
- Test report by the external independent quality control laboratory Geoterra (No. 2020/259)
- 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 ($\pm 0,1$)
Gloss (60°)	5-6
Abrasion resistance (Taber Test, CS 10/1000/1000, ASTM D4060)	92mg
Adhesion strength (EN 1542)	$\geq 2\text{N/mm}^2$
Flexibility (ASTM D522, 180° bend, 1/8" mandrel)	Pass
Scratch hardness (Sclerometer Test - Elcometer 3092)	2,5N
Skid resistance (EN 13036-4, wet surface)	28 (PTV – slider 96)
Hardness Shore A (ASTM D2240)	76
Liquid water permeability (EN 1062-3)	$< 0,1\text{kg/m}^2\text{h}^{0,5}$
Permeability to CO ₂ – Diffusion-equivalent air-layer thickness Sd (EN 1062-6)	$> 50\text{m}$
Water vapour permeability – Diffusion-equivalent air-layer thickness Sd (EN ISO 7783)	0,3m (Class I – vapour permeable)
Consumption: • 250-330gr/m ² for two layers (cementitious surface) • 300-450gr/m ² for two layers (asphalt)	

Application conditions

Substrate moisture content	$< 4\%$
Relative air humidity (RH)	$< 80\%$
Application temperature (ambient - substrate)	$+8^\circ\text{C min.} / +35^\circ\text{C max.}$

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
	Acqua Primer NP or Acqua Primer	Water-based epoxy primers, ideal for efficient substrate stabilization and adhesion promotion
	Vinyfix® Primer	Solvent-based primer based on vinyl resins, ideal for stabilizing brittle substrates
Asphalt	Acqua Primer NP or Acqua Primer	Water-based epoxy primers, ideal for stabilizing asphalt substrates - also effectively prevent bleeding caused by oil migration

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®** and the acrylic elastomeric mastic **Jointex®**.

Asphalt

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® Sport Flex**, 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 **Vinyfix® Primer**, **Acqua Primer NP** or **Acqua Primer**. In cases of substrates with increased porosity, an additional priming layer may be required.



Application

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

Special notes

- **Neocryl® Sport Flex** 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® Sport Flex** 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® Sport Flex** in a ratio of 10-25% w/w.
- Not suitable for application on sport courts with polyurethane substrates of high elasticity.
- In case of application on EPDM sport courts, due to the variety of EPDM surface types available, it is advisable to perform a small-scale trial application after priming with **Acqua Primer** or **Acqua Primer NP**.

Appearance	Viscous liquid
Colours	White, Terracotta, Green, Pastel blue RAL 5024 Tailor-made shades available, upon special arrangement
Packing	12kg and 4kg in plastic pails <i>*RAL 5024 only available in 12kg packing</i>
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	WH30-00JP-F00F-Y2NR
Versions	Neocryl® Special , water-based coating based on acrylic resins for exterior floors
Storage stability	2 years, stored in its original sealed packing, protected from frost, humidity and exposure to sunlight

CE	
NEOTEX S.A. V.Moira str., P.O. Box 2315 GR 19600 Industrial Area Mandra, Athens, Greece	
20	
DoP No.: 4950-62 EN 1504-2 Neocryl® Sport Flex Surface protection products Coating	
Water vapour permeability	Class I
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.

HEADQUARTERS - PLANT
V. Moira str., Xiropigado
LOGISTICS SALES & CENTER
Loutsas str., Voro

P.O. Box 2315, GR 19600
Industrial Area Mandra
Athens, Greece
T. +30 210 5557579

NORTHERN GREECE BRANCH
Ionias str., GR 57009
Kalochoi, Thessaloniki, Greece