

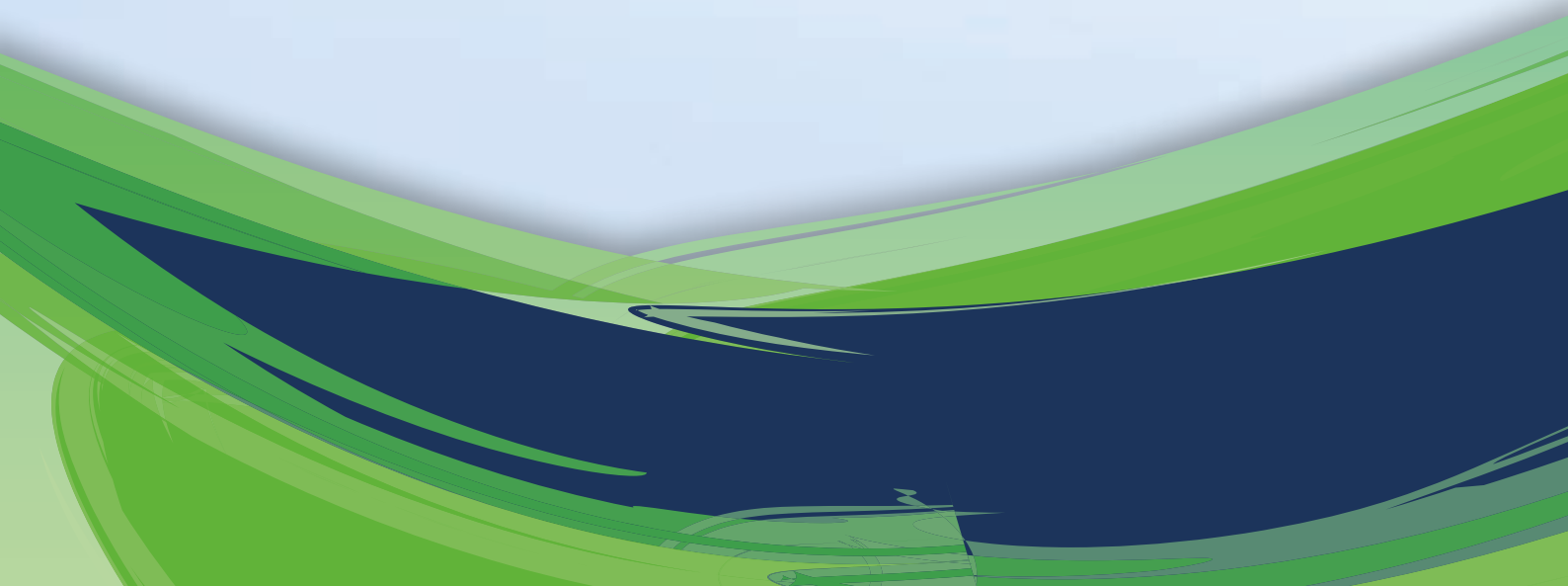


ESTABLISHED IN 1959

CONSTRUCTION CHEMICALS



Flooring Protection Applications





EPOXY FLOORING

Epoxy floors are floors with special requirements regarding their resistance, durability, properties and also their aesthetic. In general, the floor is the only construction element of a building, bearing any kind of stress on a daily basis. This is where epoxy floors fit in, serving all the above mentioned needs.

Epoxy resin floors consist of thin coatings. When the polymerization process is completed, they acquire extremely high mechanical and chemical resistance. They may be applied to numerous substrates, to old or new flooring, to places where high mechanical or chemical stresses are required. Indicative examples are: logistics warehouses, production and processing industrial facilities, parking areas, foodstuff production areas, cold chambers, storage areas, car service places, hospitals, industries, commercial and public buildings, stores, offices, high sterilization and hygiene places, etc.

They are characterized by high durability (against mechanical and chemical stresses, resistance to abrasion), providing increased lifetime and they are rapidly applied, maintained and repaired. Additionally, they are very easily cleaned and yield a smooth, glossy, resistant, anti-slip and non-absorbent surface. Moreover, they meet a wide variety of functional and aesthetic needs.

NEOTEX® exploiting its **long-lasting expertise** and credibility in waterproofing and flooring protection, has developed a **full range of quality epoxy systems** that have been applied with success since 1959. We refer to a range constantly enriched with new products developed by our R&D Department, as a result of the international market trends NEOTEX® carefully monitors and of the increased funds that NEOTEX® invests in design and production of **high standards innovative materials**. By this way, our trained and experienced personnel has the ability to deliver proper and practical construction solutions in order to meet a variety of design requirements.

NEOTEX® PRODUCTS AND SOLUTIONS IN FLOORING PROTECTION

FIELDS OF APPLICATION	SELF LEVELLING COATING					PAINTS - VARNISHES									
	Epoxol® Floor	Epoxol® Floor Winter	Epoxol® Deco	Neopox® Floor	Neopox® Special	Neodur® Special	Neopox® Special Winter Neopox® Pro	Epoxol® Floor Elastic	Neopox® W	Neopox® Alimentary	Epoxol® 2874	Neopox® Deco	Neodur® Varnish	Neodur® Varnish W	
Industrial floors	✓	✓ For low temperatures or high humidity		✓	✓		✓		✓	✓			✓		
Commercial and public buildings – Offices, shops	✓ Covers surface imperfections	✓ Covers surface imperfections	✓ Superstores, hotels or residential floors	✓ One coating needed	✓		Neopox® Special Winter				Shops, galleries	✓ Enhances abrasion resistance	✓		
Parking areas, garages, car services	✓	✓ For low temperatures or high humidity		✓	For exterior areas	For low temperatures or high humidity. Neopox® Special Winter With mat anti-slip finish: Neopox® Pro			✓						
Food and beverages facilities, warehouses, cool chambers, slaughterhouses, kitchens	✓ Certified for permanent direct contact with foodstuff and beverages						Ideal for cool chambers or other applications that demand elasticity in order to absorb thermal shocks. Certified for permanent direct contact with foodstuff	✓ Certified for permanent direct contact with foodstuff, beverages and drinking water	✓ Certified for permanent direct contact with foodstuff and beverages						
Hospitals	✓	✓						✓							
Open areas	✓ At shady, sheltered areas	✓ At shady, sheltered areas		✓ At shady, sheltered areas	✓	At shady, sheltered areas		✓ At shady, sheltered areas			As a bonding layer		For additional UV protection	For additional UV protection	
Decorative floors	✓ Can be decorated with Neoglit® flakes	✓ Can be decorated with Neoglit® flakes	✓	✓ Can be decorated with Neoglit® flakes							As a bonding layer on pebbled and mosaic floors, on floors with epoxy pigments	✓	As a sealing layer onto resin-mortar with artstones, cement slurries, stamped flooring	✓ Decorative colored cement slurries	
Other surfaces				✓ Metallic surfaces, lofts	✓ Pools, metallic constructions, tanks, fountains, boats, polyester and wooden surfaces		✓ Steel structure floors obtaining great elasticity	✓ Metallic surfaces, tanks			For embedding electric installations	✓ Metallic surfaces, lofts	✓ Metallic, polyester, stone, wooden surfaces, pools, sea-side areas, anti-graffiti varnish	✓ As a protective varnish after decorative cement based rendering compounds, stone, wooden materials and cement based floors.	



ADVANTAGES OF EPOXY SYSTEMS

- ▶ **Increased mechanical resistance** : Capable of withstanding very intense/heavy circulation
- ▶ **Easy cleaning, increased chemical resistance** : Ideal for food and beverages production
- ▶ **Low weight, seamless construction** : Suitable for the reconstruction of old flooring
- ▶ **Quick and easy construction, maintenance, repair** : Combines rapid hardening and high final resistance
- ▶ **Smooth or rough finish** : Depending on the space requirements and the end user's desire
- ▶ **Environmentally friendly** : Water-diluted systems and low toxicity coatings
- ▶ **Many options of final surface characteristics, utility requirements, colors** : Variety of smooth or rough finish, satin or glossy surface and color shades
- ▶ **Wide range of temperature resistance** : They preserve their properties at extremely low and high temperatures
- ▶ **Applied to substrates with rising moisture** : With the use of a proper anti-osmotic epoxy primer, a permanent solution is offered and ideal conditions are created for the right adhesion of the relevant system

CHEMICAL RESISTANCE OF BASIC FINAL NEOTEX® EPOXY FLOOR COATINGS

SUBSTANCE	SOLUTION CONCENTRATION %	Epoxol® Floor		Neopox® Floor		Neopox® Special		Neopox® W		Neopox® Alimentary	
		Permanent contact	Non-permanent contact	Permanent contact	Non-permanent contact	Permanent contact	Non-permanent contact	Permanent contact	Non-permanent contact	Permanent contact	Non-permanent contact
Distilled water	100%	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sea water	100%					✓	✓	✓	✓		
Ethanol	15%	✓	✓	✓	✓	Limited resistance	✓	Limited resistance	✓	✓	✓
Ethanol	95%		Limited resistance		Limited resistance						Limited resistance
White spirit	100%	✓	✓	✓	✓	✓	✓				✓
Xylene	100%	✓	✓		✓						✓
Ethylene Glycol	100%	✓	✓	✓	✓					✓	✓
Gasoline (Super)	100%	✓	✓	✓	✓		✓			✓	✓
Ammonia	10%	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NaOH	10%	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hydrochloric Acid	10%	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hydrochloric Acid	37%		Good resistance		Limited resistance		Limited resistance		Limited resistance		Limited resistance
Sulphuric Acid	10%	✓	✓	Limited resistance	✓		Good resistance		Good resistance	Limited resistance	✓
Nitric Acid	10%	✓	✓	Limited resistance	✓		Good resistance		Good resistance	Limited resistance	✓
Acetic Acid	10%	Good resistance	Good resistance	Limited resistance	Limited resistance		Good resistance		Limited resistance	Limited resistance	Limited resistance
Phosphoric Acid	10%		Limited resistance				Good resistance		Limited resistance		Limited resistance
Lactic Acid	10%	✓	✓		Limited resistance		Good resistance		Limited resistance	Limited resistance	✓
Citric acid	10%	Good resistance	✓				Good resistance				

The above resistance is measured at a temperature of 20°C.

✓ Excellent resistance (provided that the floor is subjected to periodic cleaning maintenance).

In occasions of good and limited resistance, non-permanent contact is defined as sporadic, occasional surface chemical stress, in which the floor responds positively, if the chemical pollutant is cleaned or evaporated away. The above suggestions are based on laboratory measurements and practical experience.

Many chemicals in common use, will stain or discolor the surface of resin floors, without causing any deterioration or reduction of their final chemical and mechanical resistance.

SUBSTRATE PRIMERS

Epoxol® Primer

Description

Two-component, solvent-based epoxy primer

Properties/Advantages

- ▶ High hardness and abrasion resistance.
- ▶ Good resistance to alkalis, diluted acids, water and many solvents.

Fields of application

Floors and walls (of factories, laboratories, warehouses, superstores, parking places, garages, slaughterhouses, larders, hospitals, schools, etc.), which will be covered with epoxy paints and systems (**Epoxol® Floor, Neopox®**) and generally on floors which need high mechanical and chemical resistance.

Consumption

150-200gr/m² per layer



Neopox® Special Primer 1225

Description

Two component, anticorrosive primer based on epoxy and polyamide resins

Properties/Advantages

- ▶ It offers excellent anticorrosive protection
- ▶ Resistance against water and sea water, alkalis and dilute acids
- ▶ Abrasion resistance and durability against adverse weather conditions, industrial atmosphere and petroleum derivatives.
- ▶ Very strong adhesion on metals

Fields of application

Suitable for metallic surfaces that undergo significant mechanical stresses, or metallic substrates that are periodically or constantly in contact with water or seawater, dilute acids and their fumes.

Consumption

140-170gr/m² per layer



Acqua Primer

Description

Two-component, water-based epoxy primer for concrete surfaces

Properties/Advantages

- ▶ High hardness and abrasion resistance.
- ▶ Good resistance to alkalis, diluted acids, water and many solvents.

Fields of application

Floors and walls (of factories, laboratories, warehouses, superstores, parking places, garages, slaughterhouses, larders, hospitals, schools, etc.), which will be covered with epoxy paints and systems (**Epoxol® Floor**, **Neopox®**) and generally on floors which need high mechanical and chemical resistance.

Consumption

160-330gr/m² per layer



Neopox® Primer AY

Description

Two component, solvent free, epoxy primer that offers a permanent solution to floors with rising moisture

Properties/Advantages

- ▶ It is resistant to abrasion and chemicals (alkalis, dilute acids, water and several solvents).
- ▶ It can be applied to surfaces with high humidity.
- ▶ Can be used on new concrete floors (less than 28 days), which will be coated with epoxy coatings

Fields of application

Floor (of factories, laboratories, warehouses, superstores, parking places, garages, slaughter houses, larders, hospitals, schools, etc.), that need a permanent barrier against moisture, prior to applying epoxy systems.

Consumption

400-500gr/m² per layer



Neotex® PU Primer

Description

Single component polyurethane transparent impregnation

Properties/Advantages

- It is easily applied and
- Exhibits increased hardness, high abrasion and chemical resistance

Fields of application

Suitable for cement floors that require surface improvement of their properties.

Consumption

200-250gr/m² per layer



SELF-LEVELING EPOXY FLOOR

Epoxol® Floor

Description

Two component colored, multipurpose epoxy system, without solvents, for the creation of self-leveling floors.

Properties/Advantages

- ▶ High hardness
- ▶ Increased resistance to abrasion, yellowing and chemicals.
- ▶ Suitable for surfaces which are about to be in direct permanent contact with foodstuff and beverage

Fields of application

Floors of industries, factories, superstores, warehouses, garages, car service places, slaughterhouses, food and beverage facilities, hospitals, etc.

Consumption A+B (1mm)

800gr/m² mixed with quartz sand in a ratio from 1:0,8 to 1:1,2

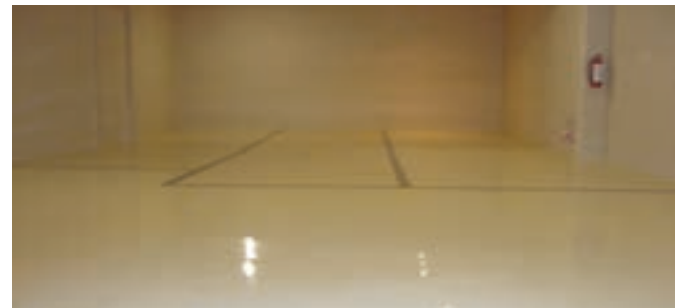


Standard Colors of Epoxol® Floor
RAL 9003
RAL 1015
RAL 3009
RAL 7047
RAL 7040

Tailor-made shades can be produced for a minimum quantity of 150kg, upon special arrangement. The above shades of printed colors may vary slightly compared with the actual.

VERSIONS

Epoxol® Floor Winter: specialized version to be applied in low temperatures and/or high humidity environment



Epoxol® Deco

Description

Solvent-free epoxy system, suitable for the creation of self-leveling decorative floors with a granite look.

Properties/Advantages

- ▶ Great abrasion and yellowing resistance
- ▶ Significant strength and chemical resistance.

Fields of application

Epoxol® Deco can be applied on superstores, hotels or residential floors.

Consumption

(Resin: Filler – 1kg: 1,7kg) 1m² of 2mm thickness



EPOXY COATINGS

Neopox® Special

Description

Two-component brushable epoxy paint

Properties/Advantages

- ▶ Increased hardness
- ▶ Excellent resistance to abrasion, fresh and sea water, diluted acids, industrial atmosphere.
- ▶ Neopox® Special doesn't pre-require the substrate priming.

Fields of application

Floors of industries, warehouses, car services places, swimming pools, tanks, fountains, boats and indoor metallic surfaces.

Consumption

250-350gr/m² for 2 layers



Standard Colors of Neopox® Special		
RAL 9003	RAL 9005	RAL 7040
RAL 7005	RAL 1002	RAL 3001
RAL 3009	RAL 6000	RAL 1018

Tailor-made shades can be produced for a minimum quantity of 150kg, upon special arrangement. The above shades of printed colors may vary slightly compared with the actual.

VERSIONS

Neopox® Special Winter: specialized version to be applied in low temperatures or/and high humidity environment (>5°C, relative atmospheric humidity <85%, surface humidity content <4%)

Neopox® Special Mat: version with mat appearance

Neopox Pro: More economic version for big projects (garages, industrial floors, metallic surfaces).

Neopox® Pool

Description

Epoxy, solvent based paint with UV filters, suitable for swimming pools

Properties/Advantages

- ▶ Increased hardness
- ▶ High abrasion and yellowing resistance
- ▶ Very good adhesive strength and excellent resistance to water atmosphere

Fields of application

Suitable for pools, tanks (for non potable water, dilute solutions of acids and bases), metallic structures (that are periodically or constantly submerged in water or sea water), boats etc.

Consumption

250-330gr/m² for 2 layers



Neopox® Floor

Description

Two-component solvent-free, high build epoxy paint for flooring applications

Properties/Advantages

- ▶ Shows great abrasion and yellowing resistance
- ▶ Significant strength and chemical resistance
- ▶ Saving of labor cost and time

Fields of application

Floors of factories, laboratories, warehouses, superstores, parking places, garages, slaughterhouses, larders, hospitals, schools, etc.

Consumption

330-400gr/m² per layer



Neopox® Deco

Description

Two-component solvent-based epoxy paint with metallic effect, suitable for decorative purposes

Properties/Advantages

- ▶ High hardness, abrasion and yellowing resistance
- ▶ Very good adhesive strength
- ▶ Meets the architectural aesthetic requirements.

Fields of application

Floors and walls of shops, offices, stores, metallic constructions. It gives the metallic effect on the substrate.

Consumption

250-330gr/m² for 2 layers



Neopox® W

Description

Two component brushable water-based epoxy paint

Properties/Advantages

- ▶ It is resistant to water, alkalis, detergents, diluted acids and many solvents.
- ▶ Offers good abrasion, yellowing & strength resistance and very good adhesion on cement surfaces.
- ▶ Suitable for permanent contact with foodstuff and for permanent contact with drinking water.

Fields of application

Floors and walls of factories, shops, laboratories, stairs, slaughter-houses, garages, water-tanks and on asphalt.

Consumption

330-400gr/m² for two layers



Neopox® Alimentary

Description

Two-component solvent-free, high build epoxy paint for flooring applications in food and beverage facilities

Properties/Advantages

- ▶ Great abrasion and yellowing resistance.
- ▶ Significant strength and chemical resistance.

Fields of application

Main application field is the food and beverage facilities. It can be applied to floors and walls of factories, warehouses, laboratories, production lines, wineries, food-stuff stores, etc.

Consumption

330-400gr/m² per layer



Epoxol® Floor Elastic

Description

Two component elastic multipurpose solvent-free epoxy system

Properties/Advantages

- ▶ Selected resins and hardeners without solvents, with significant elasticity

Fields of application

Floors of factories, laboratories, warehouses, superstores, parking places, garages, slaughter houses, refrigerators, larders, hospitals, schools, etc.

Consumption

500-650gr/m² per layer



POLYURETHANE COATINGS

Neodur® Varnish

Description

Two component, polyurethane clear varnish, cured with aliphatic polyisocyanates.

Properties/Advantages

- Strong adhesion
- Excellent hardness
- Long lasting durability against weathering.

Fields of application

Recommended to use a protective varnish after the epoxy systems **Neopox®** or as a UV protective layer in pools. Very strong adhesion on polyester or galvanized steel, metals and wooden surfaces.

Consumption

125-165gr/m² per layer



Neodur® Varnish W

Description

Two-component, water based, polyurethane transparent varnish, cured with aliphatic polyisocyanates.

Properties/Advantages

- High strength
- Strong adhesion
- Excellent hardness
- Long lasting durability against weathering
- Abrasion resistance
- Very good yellowing resistance
- Resistant against UV radiation

Fields of application

Recommended as a protective varnish after colored decorative cement slurries, stone, wooden surfaces and cement based floors.

Consumption

125-165gr/m² per layer



Neodur® Special

Description

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

Properties/Advantages

- ▶ Contains UV filters and it is not affected by the sunlight and weather conditions.
- ▶ Very good resistance to abrasion and mechanical stress
- ▶ High chemical resistance.

Fields of application

Floors of warehouse ramps, garages, metallic constructions, outdoor stores, outdoor laundries, gas stations, etc.

Consumption

350gr/m² for two layers



TECHNICAL CHARACTERISTICS OF FINAL NEOTEX® EPOXY FLOOR COATINGS

PROPERTIES	Epoxy® Floor (A+B) mixed in ratio 1:1 with quartz sand M32	Epoxy® Deco	Neopox® Floor	Neopox® Special	Epoxol® Floor Elastic	Neopox® W	Neopox® Alimentary	Neodur® Special	Neopox® Deco	Neodur® Varnish	Neodur® Varnish W	Method – Standard of measurement
PHYSICAL												
Density (+25°C)	A: 1.45 kg/L B: 1.02 kg/L	A: 1.1 kg/L B: 1.02 kg/L	A: 1.60 kg/L B: 1.02 kg/L	A: 1.04-1.37 kg/L B: 0.90 kg/L (depending on shade)	A: 1.45 kg/L B: 0.98 kg/L	A: 1.51 kg/L B: 1.12 kg/L	A: 1.53 kg/L B: 1.02 kg/L	1.25-1.30 g/cm ³	A: 1.07-1.12 kg/L B: 0.90 kg/L (depending on shade)	A: 0.98-1.02 kg/L B: 1.01 kg/L	A: 1.01 kg/L B: 1.01 kg/L	
Mixing Ratio A:B (by weight)	100A:35B	6.25A+3.75B (resin): 17C (filler)	100A:25B	75A:25B	100A:80B	100A:20B	100A:30B	75A:25B	70A:30B	72A:28B	90A:10B	
Hardening Time (+25°C)	10 hours	10 hours	10 hours	3 hours	36 hours	3 hours	10 hours	3 hours	3 hours	3 hours	2 hours	
Pot life after mixing (+25°C)	1 hour	40 min	1 hour	1 hour	2 hours	45 minutes	1 hour	1 hour	1 hour	1 hour	1 hour	
Recoating Time (+25°C)	24 hours	24 hours	24 hours	18-24 hours	48 hours	18-24 hours	24 hours	24 hours	18-24 hours	24 hours	24 hours	
Application Temperature	Between +12°C and +35°C	Between +12°C and +35°C	Between +12°C and +35°C	Between +12°C and +35°C	Between +12°C and +35°C	Between +12°C and +35°C	Between +12°C and +35°C	Between +12°C and +35°C	Between +12°C and +35°C	Between +12°C and +35°C	Between +12°C and +35°C	
Walkability (+25°C)	24 hours	24 hours	24 hours	24 hours	48 hours	24 hours	24 hours	24 hours	24 hours	18 hours	24 hours	
Total Hardening (+25°C)	7 days	7 days	7 days	7 days	10 days	7 days	7 days	7 days	7 days	7 days	7 days	
Low temperatures or/and high humidity during application prolong the setting time, while high temperatures or/and low humidity decrease it.												
MECHANICAL												
Abrasion Resistance - Taber Test	61 mg	71 mg	68 mg	57 mg	28 mg	91 mg	65 mg	58 mg	57 mg	42 mg	30 mg	ASTM D 4060 (CS 10/1000/1000)
Impact Resistance	IR4	IR4	IR4	-	-	-	IR4	-	-	-	-	EN ISO 6272
Compressive Strength	104 N/mm ²											DIN 53452
Flexural Strength	75 N/mm ²											DIN 53452
Adhesion Strength	≥ 2.5 N/mm ²	≥ 2.5 N/mm ²	≥ 2.5 N/mm ²	≥ 2.5 N/mm ²	≥ 2.5 N/mm ²	≥ 2.5 N/mm ²	≥ 2.5 N/mm ²	≥ 3 N/mm ²	≥ 2.5 N/mm ²	≥ 2.5 N/mm ²	≥ 2.5 N/mm ²	EN 13892-8
Hardness – Shore D	80		72	-	25	-	76	-	-	-	-	ASTM 2240
CHEMICAL												
Resistant to chemical stress by solutions	See relative chemical resistance list (page 5)		See relative chemical resistance list (page 5)	See relative chemical resistance list (page 5)		See relative chemical resistance list (page 5)	See relative chemical resistance list (page 5)					General Chemical State Laboratory
Direct permanent contact with foodstuff, beverages, drinking water	Appropriate for direct permanent contact with foodstuff and beverages with alcohol content ≤15%		Between -30°C and +100°C	Between -50°C and +140°C	Appropriate for direct permanent contact with foodstuff	Appropriate for direct permanent contact with foodstuff and beverages with alcohol content ≤15% as well as drinkable water	Appropriate for direct permanent contact with foodstuff	Between -30°C and +100°C	Between -50°C and +140°C	Between -30°C and +80°C	Between -30°C and +80°C	
Resistance to Temperature change (in dry loading)	Between -30°C and +100°C	Between -30°C and +80°C	Between -30°C and +100°C	Between -50°C and +140°C	Between -50°C and +80°C	Between -30°C and +80°C	Between -30°C and +100°C	Between -30°C and +80°C	Between -50°C and +140°C	Between -30°C and +80°C	Between -30°C and +80°C	
Packing	Sets (A+B) of 13.5kg, 4.05kg	Sets (A+B+C) 27 kg	Sets (A+B) of 12.5kg	Sets (A+B) of 10kg, 5kg, 1kg	Sets (A+B) of 13.5kg	Sets (A+B) of 12kg, 6kg, 1.2kg	Sets (A+B) of 13kg	Sets (A+B) of 10kg, 5kg	Sets (A+B) of 5kg	Sets (A+B) of 5kg, 1kg	Sets (A+B) of 3kg	
Appearance	Shiny, glossy	Shiny, glossy	Shiny, glossy	Shiny, glossy. Also available in mat version: Neopox® Special Mat and in its winter version: Neopox® Special Winter	Shiny, glossy	Shiny, satin	Shiny, glossy	Semi gloss	Shiny, glossy with metallic effect	Transparent, glossy. Also available in mat version: Neodur® Varnish Mat	Transparent, mat	

The information supplied in this catalogue, concerning the uses and the applications of the products, are based on the experience and knowledge of NEOTEX® SA. It is offered as a service to architects and constructors in order to help them find potential solutions. However, as a supplier, NEOTEX® does not control the actual use and therefore cannot be held responsible for the results of it.

Indicative Applications of epoxy flooring systems of



Alumil, aluminum profiles industry, Kilkis, Greece



Free Industrial Zone, warehouse, Poti, Georgia



Vardarec, dairy factory, Udovo, FYROM



Russian Embassy, Marousi, Greece



Intercontinental Aphrodite Hills, Paphos, Cyprus



Cellcare Products Ltd, laboratory, Bern, Switzerland

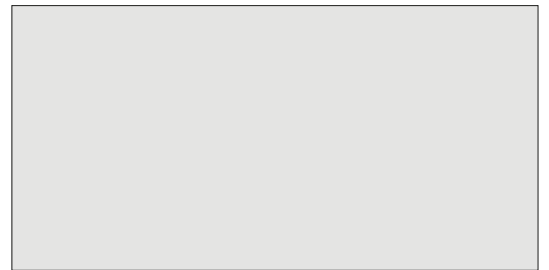


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