

05.07 –NEUCEBETON –Acrylic Paint for Concrete Structures

DESCRIPTION:

NEUCEBETON is a coating for superficial protection of concrete, based on 100% acrylic resins, unsaponifiable in water based environment, charges and pigments selected.

We recommend it for exterior and interior applications in concrete structures, armed concrete or cement surfaces, in aggressive maritime and industrial environments; with a matte finish and partial covering so to keep a visual aspect.



Due to its low water permeability, chlorides and carbon dioxide (CO₂), is an excellent solution for concrete anti-carbonation, protecting the surface of atmosphere aggressive agents that can penetrate it under the form of gases or dissolved salts. On the other hand, its good permeability to water vapor makes the concrete breathe. It presents a low VOC tenor.

FEATURES:

- Product with CE marking, meets the requirements of the norm NP EN 1504-2, regarding the "protection against the penetration of aggressive agents into concrete."
- Easy application and odor-free.
- Excellent adhesion.
- Concrete anti-carbonation protection.
- Good resistance to maritime and industrial environments.
- Fireproof.
- Resistant to fungi and algae.

SPECIFICATIONS:

- **Density** 1,430 ± 3% (p/ white color)
- **Viscosity**.....[5600-8400]cp SP7 60rpm (25°C)
- **Solids tenor**.....58.6 ± 5% (weight)
- **Color**.....White, catalog colors, others
- **Finishing**.....Matte
- **Superficial drying**..... ± 45 minutes
- **Depth drying**..... ±24 hours
- **Recoat drying**.....± 12 to 24 hours
- **Thickness advised (dry)** 60 – 100 µm per coat
- **VOC (volatile organic composites)** ^{a)} EU limit value for this product cat. (A/i) 140 g/l (2010). This product contains 55 g/l VOC maximum.

CERTIFICATES/ TEST REPORTS:

Classification according to the European reaction to fire norm, EN 13501-1:2007 + A1:2009 “Fire classification of construction products and building elements- Part 1: classification using data from reaction to fire tests”, A2-S1, d0.
Fulfills NP EN 1504-2 requirements.

RECOMMENDED USE:

Due to its "NEUCEBETON" qualities it is recommended for superficial protection of concrete structural elements, armed concrete, concrete structures, cementations surfaces, such as: bridges, viaducts, tanks (exterior painting), walls, etc., as long as properly prepared.
Being 100% acrylic, the colors are unalterable with time and its

adhesion power to the surface, even being compact, is very good.

**SURFACE
PREPARATION:**

All the surfaces have to be dry, firm, free of dust, grease and other contaminants.

It is normal to use mold release agents or other additives to the hardening of concrete, whenever it is necessary to remove them before painting, so that paint adhesion won't be reduced; in these cases it is recommended, washing with high pressure water-jet cleaning gun or a surface attack with an acid solution followed by an abundant washing with neutral water and let the whole surface dry.

If the surface presents cracks or micro-cracks, those should be properly treated before painting.

Over cement or concrete surfaces, this paint can be directly applied to the surface, or over a suitable primer, as, Pliolite Primer, Hydroneuce Primer, Multineuce- Water Based Acrylic Multi-use Primer.

APPLICATION:

Before to use homogenize well the product.

The application is to be realized with a paint-brush, roller, conventional or "airless" spray gun, in 2 to 3 coats properly diluted with water and in a period of 12 to 24 hours, under normal conditions of humidity and temperature. For an efficient protection of concrete structures, we recommend the application of Neucebeton with a final dry thickness between 150 and 200 μm

Do not apply in case of imminent rain or very hot surfaces due to sun exposure.

Application temperature is between 5°C and 35°C, relative humidity inferior to 80%, the surface temperature between 2 and 3°C above the dew point.

DILUTION:

With water in the following proportions: 1st coat 5 to 10%, remaining up to a max. of 5%.

**THEORETICAL
COVERAGE:**

On average and per coat 4 m^2/L to 100 μm dry: 7 m^2/L to 60 μm dry, depending on the application method and the type of support.

CLEAN-UP:

With water right after the application.

WARNING:

This product is not irritant nor presents any risks of sensitization in a contact with skin. In spite of presenting no risks for health, it is advised to keep out of reach of children.

For further information, the reading of our product **Safety Data Sheet** is essential.

**STORAGE
AND
PACKAGING:**

Packages should be kept properly closed, in good environmental conditions of temperature and humidity, and spend the product on the chronological order of supply.


Use it, with preference, up to 2 years after its manufactured date, but it can also be used after this date, as long as a good homogenization of the product can be verified. It is supplied in packages of 5lt and 15

liters.

EC MARKING:

The European Norm EN 1504-2 "Products and systems for concrete structures protection and repair – Definitions, requirements, quality control and conformity evaluation – Part 2: Superficial protection systems for concrete", specifies the requirements of the coatings to use for this purpose.

The products that are covered by this specification need to have "CE" marking, according to the Annex ZA, of the same, and meet the requirements of the Community Directives of the Construction Products that are applicable in the European Regulation nº 305/2011 of March the 9th, that being said, this product complies with what is referred before and has CE conformity certificate.

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1328 – CPR – 0855 EN 1504-2:2004	
Products and systems for cement protection and reparation Products for superficial protection against the penetration	
Permeability to CO ₂	SD>50m
Permeability to Water Vapor	SD≤5m (class 1- Permeable to water vapor)
Permeability to liquid Water	W<0,1 Kg/ (m ² h ^{0,5})
Resistance to pull out	≥ 1,0 N/mm ²
Reaction to fire	A ₂ – S ₁ , d ₀

Note a) The value of the VOC previously mentioned concerns ready-to-use products, according to the technical specifications that we recommend. We do not take any responsibility for other mixtures made to the product. We draw special attention to all our agents for the responsibility that they take by not respecting what the Directive 2004/42/CE establishes.