

### ANTI-CARBONATION PAINT FOR REINFORCED CONCRETE

#### Technical Qualities

BETONCRYLL PIGMENTATO is a special, coloured, high coverage, acrylic protective paint for concrete. The product consists of organic pigments, titanium dioxide fillers and modified acrylic resins in water dispersion which provide a water-proof coating resistant to frost-thaw cycle and to the penetration of CO<sub>2</sub> and SO<sub>2</sub> gases.

BETONCRYLL PIGMENTATO prevents the carbonation and the related oxidization of the concrete iron rods. The product can be used to decorate concrete walls or to rectify defects and deteriorated areas. The product prevents the development of moulds and algae. In the event that an even greater level of protection against mould and algae is needed, it is recommended to add the indicated additive STERYLPLUS to the product. Due to its high vapour-permeability the product can also be applied onto masonry, fibre cement and stone. It has a low odour level, is non-inflammable and is friendly to both humans and the environment.

#### Ideal Use

Protection and decoration of reinforced concrete and exterior.

#### Surface Preparation

Carefully clean the surface to be treated removing any loose or flaking material, dust, smog stains or dirt by brushing thoroughly or washing the surface. New surfaces must be thoroughly dry and mature and free from grease.

#### Application Method

Onto old, powdery and chalking substrates, apply a coat of the transparent primer NEOKRYLL by OIKOS and allow 4÷6 hours to dry. After the substrate is prepared, apply two coats of BETONCRYLL PIGMENTATO by brush, roller or spray gun (1.3÷1.7mm nozzle), waiting 4 hours between coats. Dilute the product with 40% drinkable water for the first coat and 20% for the second.

#### Safety information

The product is free of heavy metals such as lead or chrome. It does not contain toxic solvents, aromatics or chlorides. There is no risk of any dangerous polymerisation. The product is considered to be a non-dangerous substance if used in the technically correct manner. Normal cautionary measures for the handling of water based paints are advised. No special arrangements are required for the storage, movement and transportation of the product; the containers, residue, eventual spilt material should be cleaned up using absorbent inert material such as sand, soil etc. etc. and then disposed of in accordance with the regional and national regulations in force at that time. Transportation must be carried out in accordance with international agreements.

#### The product

Composition	Modified acrylic resins in water dispersion, fillers, titanium dioxide, organic and inorganic pigments and preservatives and additives to aid application and the formation of the surface film
Specific weight	1,34kg/l ±3%
pH	8÷9
Viscosity	16,500 ±5% CPS Brookfield (RVT 20 r.p.m. at 25°C)
Storage temperature	+2°C ÷ +36°C. Keep from freezing
Reaction to fire	Negative when applied onto a non flammable surface: water based material with dry thickness of less than 0,600mm
Water absorption W <sub>24</sub>	0,02 kg/m <sup>2</sup> .h0.5 DIN 52 617 (max. allowed limit 0.5 kg/m <sup>2</sup> .h0.5 DIN 52 617)
Resistance to washing	In compliance to DIN 53 778, resistant at least 1,000 abrasive circles
Resistance to abrasion	In compliance to DIN 53 778, resistant at least 5,000 abrasive circles
Resistance to tear and adhesion	Conforms to the norm DIN ISO 4624
Emission limits of Volatile Organic Compounds (VOC) according to directive 2004/42 CE	<ul style="list-style-type: none"> <li>• Classification:A/c</li> <li>• VOC: 36g/l (max)</li> <li>• Limit Phase I (from 1.1.2007): 75g/l</li> <li>• Limit Phase II (from 1.1.2010): 40g/l</li> </ul>
Colours	Shades from the colour chart
Packaging	Liters 1 - 4 - 14

#### The application

Dilution	First coat 40%, second coat 20% with drinkable water
Yield	5 ÷ 7m <sup>2</sup> /l in two coats, depending on the absorption of the surface
Application tools	Brush, roller or spray gun (nozzle 1.3 ÷ 1.7mm)
Primer	Neokryll by Oikos
Application temperature	+5°C ÷ +36°C (with relative humidity not exceeding 80%)
Drying time until touch dry	1 ÷ 2h (temperature = 20°C with relative humidity at 75%)
Total drying time	10 ÷ 12 h (temperature = 20°C with relative humidity at 75%)
Tools cleaning	Water
Pulizia attrezzi	Acqua

#### Specifications

Carefully clean the surface to be treated removing any loose or flaking material, dust, smog or dirt by brushing thoroughly or washing the surface. Onto old, powdery and chalking substrates, apply a first coat of a transparent primer such as NEOKRYLL by OIKOS. In case of new plasters, make sure the substrate is thoroughly dry and free from

any grease or lubricants. After substrate preparation, apply two coats of an acrylic, protective paint such as BETONCRYLL PIGMENTATO by OIKOS waiting 4 hours between coats. All must be carried out in accordance with the norms of application, at a cost of ..... m<sup>2</sup>. inclusive of materials and labour. Scaffolding not included.

The company Oikos S.r.l guarantees, to the best of its own technical and scientific knowledge, that the information contained in this technical data sheet is correct. Notwithstanding that indicated above, Oikos takes no responsibility for the results obtained through the use of this product in as much as it is not possible for Oikos to check or control the application method used. For this reason, we recommend that you check carefully that each product chosen, is suitable for each individual use to which it is put.