Technical Qualities

BETONCRYLL WATER-REPELLENT is a special protective coating for concrete with a transparent colourless finish. The product is based on silicone/siloxanic resins in water dispersion which allows the product to penetrate deep into the substrate creating a water-repellent barrier, which maintains the level of vapour permeability and leaves the aspect of the substrate unaltered. It allows rainwater to slide along the walls preventing absorption and reducing dirt retention. It can also be used on brickwork, grès, tiles, stone and cement or lime-based plasters. 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, stone and bricks.

Surface Preparation

Clean the surface to be treated, removing any loose or flaking material, dust, smog or dirt using a brush or by washing the surface. New surfaces must be thoroughly dry and mature with no presence of grease or lubricants.

Application Method

Once the surface is prepared, apply by brush, roller or spray gun (nozzle $1.3 \div 1.7$mm), two coats of BETONCRYLL WATER-REPELLENT undiluted, wet on wet.

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	Siliconic/siloxanic resins in water dispersion, preservatives and additives to aid applicationSiliconic/siloxanic resins in water dispersion, preservatives and additives to aid application
Specific weight	1kg/l ±3%
pH	$6.5 \div 7.5$
Viscosity	50 ±5% CPS Brookfield (RVT 20 revs/min at 25°C)
Storage temperature	$+2°C \div +36°C$. 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_{24}	0,01 kg/m^2.h0.5 DIN 52 617 (max. allowed limit 0.5 kg/m^2.h0.5 DIN 52 617)
Vapour permeability Sd	0,05m (max allowed limit 2m DIN 52 615)
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
Adhesion	Conforms to the norm DIN ISO 4624
Emission limits of Volatile Organic Compounds (VOC) according to directive 2004/42 CE	• Classification:A/h • VOC: 20g/l (max) • directive Limit Phase I (from 1.1.2007): 50g/l • Limit Phase II (from 1.1.2010): 30g/l
Colours	Transparent, colourless
Packaging	Liters 1 - 4 - 10

The application

Dilution	Ready to use
Yield	$11 \div 13$m^2/l in two coats, depending on the absorption of the surface
Application tools	Brush, roller or spray gun (nozzle $1.3 \div 1.7$mm).
Application temperature	$+5°C \div +36°C$ (with relative humidity not exceeding 80%)
Drying time until touch dry	30 min. (temperature = 20°C with relative humidity at 75%)
Total drying time	24h (temperature = 20°C with relative humidity at 75%)
Tools cleaning	Water

Specifications

Clean the surface to be treated removing any loose material, smog, dust or dirt using a brush or by washing. Apply two coats of a protective siliconic/siloxanic coating such as BETONCRYLL IDROREPELLENTE by OIKOS undiluted. All must be carried out in accordance with the norms of application, at a cost of .... m^2. inclusive of materials and labour. Scaffolding not included.

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