arteMURI®
BETON-ONE

Protective anti-algae paint for reinforced concrete.
Suitable as anticarbonation barrier (UNI EN 1062-6:2003).

Permeability to carbon dioxide CO2 certified according to UNI EN 1062-6 standard

Product description and fields of application

BETON-ONE is a waterproofing finish, with a slightly satin and velvety film appearance, based on styrene-acrylic copolymers in water dispersion, selected fillers and light-stable pigments. It is resistant to the passage of carbon dioxide and sulfur dioxide and prevents accelerated aging and rusting of the reinforcing iron of reinforced concrete. Thanks to its high water repellency and the mixture of innovative active biocides resistant to alkaline pH, washout and UV rays, it provides effective protection and prevention of dry film against the proliferation of mold, fungus and algae. Moreover, it adheres perfectly even on smooth surfaces avoiding flaking phenomena. It is easy to apply, it has a good covering power of the support, even on non-homogeneous concrete castings and thanks to its properties it embellishes the concrete product.
It is therefore suitable for outdoor application on concrete and cement structures and conglomerates, cast or precast slabs, and on other alkaline supports, such as fiber cement composites.
BETON-ONE can be tinted with the arteMURI tinting system.

Numero Verde 800 350907
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BETON-ONE

Advantages
high resistance to rubbing, washing and UV rays
excellent adhesion on smooth and cement surfaces
anti-carbonation barrier
excellent coverage
high water repellency
retardant and protective film against the proliferation of mold, algae and fungi

Specifications
External wall surfaces, such as concrete, cement and fiber-cement conglomerates of various kinds, can be finished with BETON-ONE, Fornaci Calce Grigolin's anti-carbonation, superwashable, high adhesion and coverage protective paint, a product based on styrene-acrylic copolymers in water dispersion, lightfast pigments and selected fillers.
The minimum consumption for this product is 0.16 l/m2 for two coats.

Consumption and packaging
BETON-ONE is supplied in 15 l packages.
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Conservation Standards
Protect against frost. Store at temperatures between +5°C and +30°C in the original sealed containers. Under these conditions the shelf life of the stored product is at least one year.

Substrate preparation
New substrates and/or any repairs (patches) must have been cured for at least 4 weeks, clean and dry.
Old substrates must be consistent, free of salt efflorescence and loose parts, thoroughly cleaned according to the nature and intensity of the dirt deposited on the surfaces to be treated. To level and fill imperfections such as holes, cracks or crevices, first intervene with a suitable product or repair mortar. Clean up any mold or algae with SEI KO detergent and then sanitize the surface with SEI OK restorer.
On already painted surfaces, make sure of the condition of the film: brush and/or scrape the detaching film, completely remove high layers of non-adherent paints.

Substrate treatment
New reinforced concrete/concrete: Clean from possible traces of release agents. Always apply a coat of PRG SL solvent-based fixative or, if inside, of ONE MICRO.
Degraded reinforced concrete: demolish the cement parts that are not perfectly anchored or that are detaching, also from the part behind the reinforcing iron; clean the detached surfaces, remove rust from the surfacing reinforcing irons and treat them with a suitable anti-rust protective; always apply a coat of PRG SL solvent fixative or, if inside, of ONE MICRO.
Reinforced concrete/concrete already painted: always apply one coat of PRG SL solvent-based fixing agent or, if inside, of ONE MICRO.
Fiber-cement: always apply one coat of PRG SL solvent-based primer or, if indoors, of ONE MICRO.

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Product preparation

For brush applications dilute with 20% by volume of water for the first coat, with 15% for the second.
For roller applications, dilute with 10-5% of water maximum.
In both cases mix well.

Application

Apply a first coat taking care to distribute the product evenly over the surface. After at least 6-8 hours proceed with the application of the second layer taking care to cross the passes during their drafting.
Withdraw the material necessary for the execution of the work from the same batch. If different batches of product are used, it is advisable to mix them together in order to avoid slight differences in shade. Absolutely avoid the application of different batches on the same surface and finish the wall with a single batch, then resume painting on the wall at the edge with the next batch. Wash tools and equipment with water immediately after use.

Important Warnings

Do not apply with ambient and/or substrate temperature lower than +5°C or higher than +35°C and with relative humidity higher than 75%. Avoid application in presence of superficial condensation, under direct sunlight or strong wind. The adhesion of the product to the substrate is not guaranteed when the application takes place on surfaces that have salt efflorescence or are subject to humidity, so it is necessary a preventive intervention of masonry restoration.

Special Warnings

Respect the climatic conditions of application indicated above and protect the surfaces from rain and humidity for at least 48 hours. This will allow the product to dry completely and polymerize regularly, which occurs within 8-10 days. If, during this period, rain or high humidity events occur (mists and/or superficial condensation, especially in autumn), translucent drippings (so-called “slugs”) could form. This phenomenon does not affect the quality of the product and can be eliminated by hydro-washing or waiting for the next rainfall.

Safety instructions

The product does not require hazard labeling under current regulations. Use the products according to current hygiene and safety regulations. After use, do not dispose of containers in the environment. Let the residues dry well and treat them as special waste. For further information please refer to the safety data sheet.

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TECHNICAL DATA	PERFORMANCE
Binder type	acrylic copolymers
Appearance	paste/pigmented
Specific weight(UNI EN ISO 2811-1) 25°C±2	1400 ± 20 g/l
Brookfield viscosity(ASTM D2196) 25°C±2	10.000 ± 2.000 cP
Water vapor permeability and classification (UNI EN ISO 7783-2)	V = 61 g/m^2 24h Class II (medium permeability)
Equivalent air layer thickness (UNI EN ISO 7783-2)	Sd = 0,344 m
Liquid water permeability and classification (UNI EN 1062-3)	w24 = 0,034 kg/m^2 h^{0,5} Class III (low permeability)
Suitable for facade protection as it complies with the KÜNZLE theory (DIN 18550) where w24 < 0,5 kg/m2 h0,5 and Sd<2 m	Sd · w24 = 0,012 kg/m h^{0,5}
VOC content (DIR. 2004/42/EC)	Paint for exterior walls of mineral substrate. EU limit values for subcategory c, type BA 40 g/l (2010) This product contains a maximum of 40 g/l of VOCs.
Application	brush, roller, spray or airless
Theoretical consumption	approx. 110 g/m2 per coat (0.08 l/m2)
Theoretical yield	6.2 m2/l with two coats
Overpainting	6-8 hours

TECHNICAL DATA	PERFORMANCE
Permeability to carbon dioxide CO2 (UNI EN 1062-6)	Sd CO_2 = 347,95 m

v. 10/2024