



ECOTOR MARINE PX

ANTIBACTERIAL IONIZING SALTS AND MINERALS MICRO AND NANO-PARTICLE SIZED IN WATER DISPERSION

ECOTOR MARINE PX is an antibacterial, ionising additive containing micro and nanoparticle salts and minerals in aqueous dispersion.

This is an absolutely exclusive product studied expressly for the treatment of ship bilges, but it can also be used as an antifermentative and anti-mould in any type of paints and solvent-based varnishes.



SPECIFICATIONS

COMPOSITION: Elbaitte type B and nanoparticle silver in aqueous dispersion

STATE: Liquid

ACTIVE SUBSTANCE: 60%

COLOUR: Light grey

DENSITY: 1,60 - 1,65 kg/dm³

SOLUBILITY IN WATER: Insoluble

STORAGE:

In a protected, dry place

RESULTS OF THE ANTIBACTERIAL ACTIVITY

Tests carried out by Istituto di Scienze Tossicologiche Igienistiche e Ambientali - Università degli Studi di Urbino "Carlo Bo".

Test report N.1/B/P/L

The assessment was carried out on TSA plates, charged with the powder and inoculated with the micro-organisms under consideration, with the "SPOT in SOLID" technique.

The table shows the antibacterial effect of the powder on the bacterial strains under examination, expressed as a percentage of reduction.

The bactericidal action against the four strains studied proved to be of 100%.

	Staphiloccocus Aureus ATCC 29213	Escherichia Coli ATCC 25922	Pseudomonas Aeruginosa ATCC 15442	Enterecoccus Faecalis ATCC 49149
<i>Powder</i>	<i>% Reduction</i>	<i>% Reduction</i>	<i>% Reduction</i>	<i>% Reduction</i>
0,1 %	100	100	100	100

The powder taken into consideration showed the property to both inhibit the growth of the micro-organisms and to kill them .

The technical data reported in this bulletin were obtained with standardised tests or rules or their modifications or according to New Chemical Technology systems. Our technical service can be asked for the methods applied. What is reported in the present bulletin represents the best of our knowledge and experience. Anyway, we advise to carry out preventive tests when using the product differently from indicated. In any case, New Chemical Technology srl do not take any responsibility for any damage or defects caused by the use of their products, since using conditions of their products are not under their control. They also inform that their technical service is at the customers' disposal for any information concerning the right use of their products.

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CHARACTERISTICS

ECOTOR MARINE PX is a mixture of micro and nanoparticle salts and minerals in aqueous dispersion able to create a valid barrier against the adhesion of any organic and inorganic particles.

As a consequence, the surfaces treated with products containing **ECOTOR MARINE PX** prevent the deposition of the dirt and, under the action of water, they turn out to be self-cleaning and bactericidal by contact.

This action remains active forever, provided that the presence of **ECOTOR MARINE PX** persists on the surface. The essential feature of **ECOTOR MARINE PX** is its capacity to emit electro-negative charges on the surface of the paint and into the surrounding environment in any condition of light. Besides, this product has a very powerful antibacterial effect thanks to the action of the nanoparticle silver ions which make it up.

The ionisation makes the air cleaner and purer whilst the silver substitutes for normal anti-algae, anti-mould products used to purify stagnant waters, which are often toxic. In such a way, the water that is poured into the sea is much cleaner and less dangerous for the sea ecosystem thanks to the absence of classical bactericides.

The unbelievable features of **ECOTOR MARINE PX** are proved by different university certifications concerning its antibacterial effect (*Università degli Studi di Urbino; Università degli Studi di Modena e Reggio Emilia*) and are also detectable with special equipments for the detection of ionisation.

In the field of wall paints, instead, **ECOTOR MARINE PX** is able to block the formation and proliferation of moulds in wet environments and it is therefore indicated for the treatment of any kind of environment having little or no air recirculation, so avoiding the re-treatment that traditional systems require.

Moreover, **ECOTOR MARINE PX** is neither poisonous nor toxic at all during or after the application, on the contrary it improves the liveability and the hygiene of the surfaces treated and of the air inside the rooms. The dispersant contained in the mixture makes the dispersion of the product easier besides greatly improving the homogeneity of the finished product.

DOSAGE

The recommended dosage of **ECOTOR MARINE PX** is normally of 1.5 - 3.0% on the solid components of the mixtures.

Anyway, it is advisable to carry out preventive tests on the specific mixtures in order to establish the most suitable and convenient dosage according to the expected results.

USE

SHIPBUILDING

ECOTOR MARINE PX is employed to treat ship bilges, that is to say places where the bacteria in stagnant waters and decomposing bacteria obviously proliferate. Of course it will be superlative in other areas where it has an antismell, antiparticulate effect, too.

CONSTRUCTIONS

ECOTOR MARINE PX is employed for its self-cleaning effect in the preparation of cement skim plasters and plasters for internal and external application, cement and silicate paints. It can also be used for synthetic resin-based paints provided that their durability is tested in advance.

For its self-cleaning effect, **ECOTOR MARINE PX** can be used in any synthetic-binder or mineral-based paints for interior and exterior use.

Besides, for its effective bactericidal function it is recommended for the painting and the treatment of humid, little airy environments.

STORAGE AND VALIDITY

If **ECOTOR MARINE PX** is stored in a dry place, in the original containers perfectly closed, it has 12-month validity from the date of the transport document. A slight segregation of water does not jeopardize the efficaciousness of the product but requires good mixing before the collection of the product.

It is recommended to close the container with care after each collection to avoid the evaporation of the liquid vehicle.

RECOMMENDATION

In the present state of our knowledge there are no special recommendations for the manipulation of **ECOTOR MARINE PX**.

PACKAGING

10 - 25 kg. plastic buckets.