BLESS CO.,LTD

Titan Water Base Ceramic Coat "All-Titanium AT254"

Mold-Proof, Antibacterial, Deodorizing Coating Agent Safe for People And the Environment

Features

Safety :: It is an inorganic coating, It is harmless to the human body and to the environment.

Durability ... Long-term durability because there is little destruction or deterioration

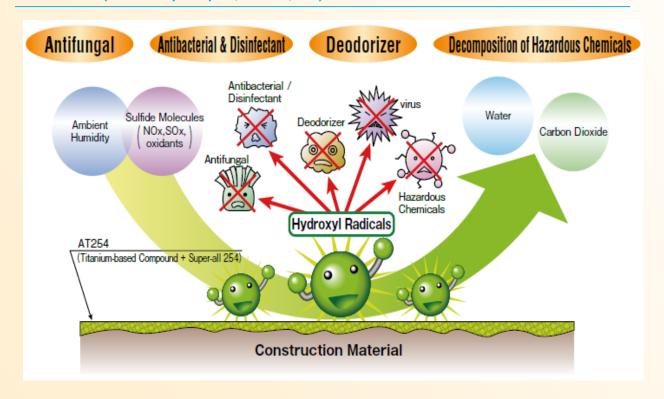
of the coating film to friction and wear.

Workability Treatment work is easy using a spray gun. It is colorless and transparent,

so anything can be coated.

"All-Titan AT254" forms a thin-film porous coating on various base materials by bonding together macromolecules of inorganic ions and ceramifying due to the condensation reaction in the aqueous solution. The ceramifying film formation reaction of "All-Titan" is due to the aqueous solution, so energy consumption for prosesses such as high temperature heating is completely unnecessary. There is also no release of CO2 or similar in the manufacturing process, so it can be described as an environmentally friendly coating material.

Overview (Technical principles, actions, etc.)



Introductory Track Record

































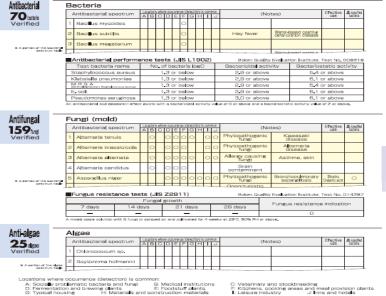




Effects

All-Titan Proven effective against a total of 254 organisms - 70 bacteria, 159 fungi and 25 algae -

In general, antibacterial effects are achieved by controlling condensates of solid acid (OHT ion adsorption properties) and solid bases (H* ion adsorption properties). However, adding antifungal properties with just inorganic matter is difficult. With All-Titan AT254, biguanide related composite antifungal constituents, which have established safety testing, are dispersed in the aqueous solution. Their molecular dispersion and fixing within the condensates then results in a highly regilable antifungal performance. The coated film is extremely resistant to wear and the antifungal effect was found to remain after a test of rubbing it 10,000 times.



Excellent deodorizing power and long-lasting effects

With the All-Titan AT254 condensates, moisture evaporates off due to drying and leaves a porous structure. This has a large internal surface area, to which many molecules attach. This adsorption is determined by the specific surface area, the pore size, the electronic state of the internal surface (the electric potential distribution of the surface, which produces the solid acid and solid base characteristics) and other factors. With All-Titan AT254, the coated film becomes a porous structure with a specific surface area of around 300 m2/g or more. We chose the composition to enable the adsorption of many odor molecules.

Gas name	Reduction rate (%)
Formaldehyde	99,00
Hydrogen sulfide	98.75
Acetic acid	99,00
Nonenal	98,00
Isovaleric acid	89,00
Ammonia	83.00

Decomposition and removal of hazardous chemical substances

Volatile organic compounds	Guide he value for concentrations indoor
Formaldehyde	0.08 ppm (100µg/mf)
Tolluene	0.07 ppm (260µg/nf)
×ylene	0,20 ppm (870µg/mf)
Paradichlorobenzene	0.04 ppm (240µg/ml)
Ethylbenzene	0.88 ppm (3.8mg/ml)
Styrene	0.05 ppm (0.225mg/mf
Di-n-butyl phthalate	0.02 ppm (0.22mg/ml)
Chlorpyrifos	0.07 ppb (0.001mg/ml
Tetradecane	0,04 ppm (330µg/ml)
Di-2-ethylhexyl phthalate	7.60 ppb (120µg/ml)
Diszinon	0.02 ppb (0.29µg/ml)
Acetaldehyde	0,03 ppm (48µg/mf)
Fenobucarb	3,80 ppb (33µg/ml)
TVOC	Provisional (400µg/ml)

Inquiries

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