

<p>Nanotechnology is one of the most promising technologies of the world. It is less a technology – it is more an umbrella term for a multitude of applications and products which consist of tiny particles and thereby get very special and even complete new properties.</p>	<p>TitanShield uses the property of photocatalytic titanium dioxide. This technology is not new but due to advanced manufacturing techniques, smaller dimensions of particles and doping with noble metals new applications were found, which were considered as utopia recently.</p>	<p>TitanShield –products are photocatalytic. Exposed to light TitanShield produces oxygen radicals on the surface. The activated oxygen decomposes organic molecules and dirt particles that get in touch with the surface. This way odorous substances, air pollutants, viruses, spores and bacteria will be destroyed.</p>
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Description:

AntiVirus-Primer is a product of the chemical nanotechnology. Due to a modification of the molecular structure the photocatalytic reactivity of TiO₂ is prevented. On the basis of this new property the product is exceptionally well-suited as a primer before application with AntiVirus-Air or AntiVirus-Touch. AntiVirus-Primer has an excellent bonding capacity on all surfaces.

Technical Data:

Ingredients: TiO₂, water
Appearance: yellowish-transparent liquid
Amount of TiO₂: ca.0,65 – 0,9%
PH value: ca.7
Primary particle size: <3nm
Agglomeration index: <10
Relative density : 1,0060 g/ml

Application Area:

Primer (Grounding) for all sucking and non-sucking surfaces

Drying:

30 minutes / 72 hours at 20°C
 15 minutes / 120 minutes at 75°C
 Drying time depends on temperature and humidity during process of application.

Properties:

Primer for protecting organic substances from oxidative damages
 Grounding for a better bonding capacity with an AntiVirus-Touch or AntiVirus-Air coating.
 Primer for reducing the application quantity of the AntiVirus-Touch or AntiVirus-Air coating in case of very absorbing surface
 UV protection

Defensibility of the coating:

At least 10 years when application occurs according to instructions.

Status of registration:

Product and / or ingredients are listed in: CAS, EINECS, TSCA, AICS, CEPA, MITI

Form of application:

HVLP-spray-technique is recommended.
 Rolling, painting, dipping.

Transport:

No hazardous material for air-, rail- or ship-transport.

Storage:

Twelve months in closed original container. Store in the darkness. Storage temperature: 5 to 45°C

In combination with an active material of the AntiVirus-Air or AntiVirus-Touch an application “wet in wet” is possible.

Package size:

25 litre buckets

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References:

Follow general danger warnings / safety data sheet during handling chemicals. Never mix chemical products.