

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.	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.	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.
<h2 style="margin: 0;">AntiVirus-Touch</h2>		

Description:

AntiVirus-touch is a product of the chemical nanotechnology. Its function is based on the principle of photocatalysis. The application causes an anti microbial surface. Viruses, germs and bacteria will be decomposed actively. Due to the doping with nano-silver the titanium dioxide is able to work in less light.

Application Area:

The application is possible on all even and or structured surfaces. (NOT ON GLASSES)

The product is optimized for:

- Application of hygienic areas of all kinds (medicine, health, gastronomy, schools etc...)
- Application of medical equipment, inventory
- Application of walls, window-catches, doors, floors, beds, wheelchair, tables, elevators etc...
- Application of air filter for disinfection
- Internal coating of cooling systems

Properties:

- disinfection
- odour neutralisation

Primer:

When application on organic surface a primer is recommended for protection against oxidation by the photocatalyst. By the Power Color International Interior-Coating on Silicate base you don't need any Primer.

Form of application:

HVLP-spray-technique is recommended. Rolling, painting, spraying is possible. Please find further detailed information to HVLP-technique in the application data sheet.

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Technical Data:

Ingredients: TiO₂, silver, water
Appearance: opaque-transparent liquid
Active material: ca.0,75 – 1,0%
Effective light spectrum: up to 475 nm
PH value: ca.8,0
Primary particle size: <8nm
Crystal structure TiO₂: anatase
Agglomeration index: 2-4
Relative density : 1,0095 g/ml
Consumption: see appl.data sheet

Drying:

30 minutes / 7 days at 20°C
 15 minutes / 120 minutes at 75°C
 Drying time depends on temperature and humidity during process of application. Feed of heat accelerates the drying process. In case of industrial partial application a high temperature drying is possible.

Status of registration:

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

Transport:

No dangerous liquid for air-, sea- or rail-transport.

Storage:

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

Package size:

5 litre, 25 litre in plastic container
100 litre, 200 litre in storage-jar

References:

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