

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.
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AntiVirus-Air-Glass

Description:

AntiVirus-Air-Glass is a product of the chemical nanotechnology. Its function is based on the principle of photocatalysis. The application causes a neutral odour and healthy comment air. Molecules, viruses and bacteria causing smel will be decomposed actively by the application. This product is used more often both in public, private and commercial areas.

Application Area:

The application is possible on all even and/ Polished surfaces like steel, flagging or glass. It can be used for in- and outside.

The product is optimized for:

- **Glass fronts**
- **Window panes**
- **Shop windows**
- **Winter gardens**
- **Glazed ceramic tiles**

Properties:

- air cleaning in respect of viruses, bacteriums, germs and surface cleaning in respect of fine particulates like soot particles by cars
- self cleaning
- super hydrophilic
- anti fogging

Primer:

No primer needed on glasses. On organic Materials you need Primers.

Form of application:

HVLP-spray-technique is recommended. Rolling, painting, spraying is possible.

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Technical Data:

Ingredients:	TiO ₂ , water
Appearance:	yellowish-transparent liquid
Active material:	0,8 – 1,0%
Effective light spectrum:	up to 475 nm
PH value:	ca.8,0
Primary paricle size:	<8nm
Crastal structure TiO₂:	anatase
Agglomeration index:	2-4
Relative density :	1,0075 g/ml
Consumption:	see appl.data sheet

Drying:

30 minutes up to 24 hours at 20°C

Drying time depends on temperature and humidity during the application.

Feed of heat accelerates the drying process. In case of industrial application of filter parts 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 trail-transport.

Storage:

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

Package size:

25 litre in buckets

References:

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