

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.

TK2015



Description:

TK2250 is a product of the chemical nanotechnology. The function of the product is based of the photo catalyses. The high-concentrate suspension is water based and because of its small particle size very reactive. The small agglomeration index and the good workability, offer a perfect basic for all industrial applications.

Application area:

Suspension to blend into the matrix or to coat the matrix.

The product is adapted for:

- Production of building materials
- Production of paint and varnish
- Production of cosmetic products
- Coating of components for air and water purification

Features:

- self-cleaning
- Algae and moss privation
- air purification
- UV-protect

Primer (grounding):

In case of application for coatings of organic under grounds it is recommended to use a primer to protect the surface from oxidation because of the photo catalyses

Application:

Blending
HVLP-injection molding
to apply with a spool
Dipping

Technical Data:

Ingredients:	TiO ₂ , water
Appearance:	whitish-transparent liquid
Active material:	15% (+/- 1,5%)
Effective light spectrum:	up to 375 nm
PH value:	ca. 7,0 -9,0
Primary particle size:	<8 nm
Crystal structure TiO₂:	anatase
Agglomeration index:	20 -30
Relative density:	1,08 - 1,13 g/ml
Consumption:	see appl. data sheet

Status of registration:

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

Storage:

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

Package size:

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

Transport:

No dangerous liquid for air-, sea- and trail transports.

References:

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

